

AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

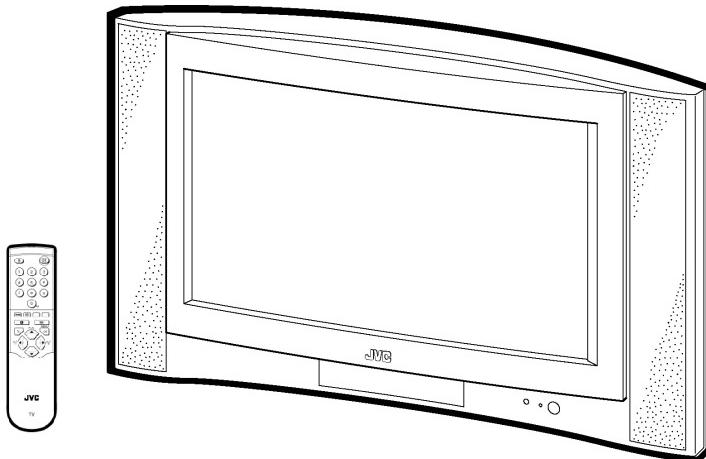
JVC

SERVICE MANUAL

COLOUR TELEVISION

**AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS**

BASIC CHASSIS
JL



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SPECIFICATIONS

Item	Content	
	AV28T25EKS / AV28T25EKB / AV28T55EKS	AV28T25EIS
Dimensions (W × H × D)	854mm × 507.5mm × 493.5mm	
Mass	43.0kg	
TV RF System	CCIR (I)	
Colour System	PAL NTSC (Only in EXT mode)	
Stereo System	NICAM	
Teletext System	FLOF (Fastext) WST(Standard system)	
Receiving Frequency		
VHF	—	47MHz ~ 470MHz
UHF	470MHz ~ 862MHz	470MHz ~ 862MHz
Intermediate Frequency		
VIF Carrier	38.9MHz (I)	
SIF Carrier	32.9MHz (6.0MHz:I)	
Colour Sub Carrier Freq.		
PAL	4.43MHz	
NTSC	3.58MHz / 4.43MHz	
Power Input	AC 220V~240V , 50Hz	
Power Consumption	180W(Max) / 120W(Avg) Standby : 3W	
Aerial Input Term	75 Ω unbalanced, Coaxial	
Picture Tube	Visible size : 66cm, Measured diagonally	
High Voltage	31.0kV ^{+1kV} _{-1.5kV} (at zero beam current)	
Speaker	6.5cm × 13cm Oval type × 2	
Audio Output	10W + 10W	
EXT-1/EXT-2/EXT-3 (Input / Output)	21-pin Euro connector (SCART socket)	
EXT-4 (Input)	Video : 1Vp-p 75Ω (RCA pin jack)	
Audio (L/R)	500mVrms (-4dBs), High Impedance (RCA pin jack)	
S / Video	Y : 1Vp-p POSITIVE (Negative sync Provided, when terminated with 75Ω) C : 0.286Vp-p (Burst signal, when terminated with 75Ω)	
AUDIO OUT (Variable)	0~1Vrms, Low Impedance (RCA pin jack × 2)	
Headphone Jack	Stereo minijack (φ3.5mm)	
Remote Control Unit	RM-C55H-1C(AV28T25EKS/AV28T55EKS) (AAA/R03 dry battery × 2) RM-C51-1C (AV28T25EKB) (AAA/R03 dry battery × 2)	RM-C55H-1C (AAA/R03 dry battery × 2)

Design & specifications are subject to change without notice.

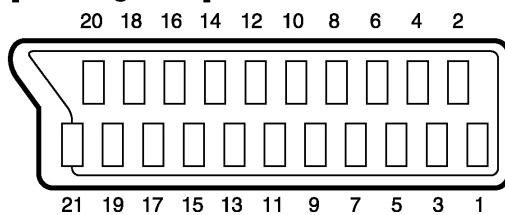
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■21-pin Euro connector (SCART socket) : EXT-1 / EXT-2 / EXT-3

(P-P= Peak to Peak, S-W= Sync tip to white peak, B-W= Blanking to white peak)

Pin No.	Signal Designation	Matching Value	EXT-1	EXT-2	EXT-3
1	AUDIO R output	500mVrms(Nominal), Low impedance	<input type="radio"/> (TV OUT)	<input type="radio"/> (LINE OUT)	NC
2	AUDIO R input	500mVrms(Nominal), High impedance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	AUDIO L output	500mVrms(Nominal), Low impedance	<input type="radio"/> (TV OUT)	<input type="radio"/> (LINE OUT)	NC
4	AUDIO GND		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	GND (B)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	AUDIO L input	500mVrms(Nominal), High impedance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	B input	700mV _{B-W} , 75Ω	<input type="radio"/>	NC	NC
8	FUNCTON SW (SLOW SW)	Low : 0-3V, High : 8-12V, High impedance	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	GND (G)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	SCL3		NC	<input type="radio"/>	NC
11	G input	700mV _{B-W} , 75Ω	<input type="radio"/>	NC	NC
12	SDA3		NC	<input type="radio"/>	NC
13	GND (R)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14	GND (Y _s)		<input type="radio"/>	NC	NC
15	R / C input	R : 700mV _{B-W} , 75Ω C : 300mV _{P-P} , 75Ω	<input type="radio"/> (only R)	<input type="radio"/> (only C)	<input type="radio"/> (only C)
16	Y _s input	Low : 0 - 0.4, High : 1 - 3V, 75Ω	<input type="radio"/>	NC	NC
17	GND(VIDEO output)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
18	GND(VIDEO input)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
19	VIDEO output	1V _{P-P} (Negative going sync), 75Ω	<input type="radio"/> (TV)	<input type="radio"/> (LINE OUT)	NC
20	VIDEO / Y input	1V _{P-P} (Negative going sync), 75Ω	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
21	COMMON GND		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Pin assignment]



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SAFETY PRECAUTIONS

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (Δ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

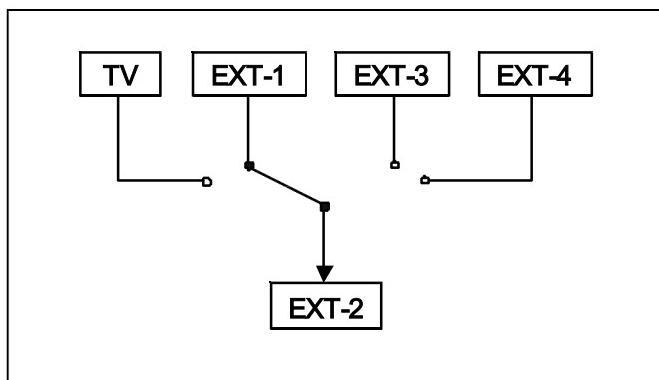
WARNING

1. The equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

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FEATURES

- By preference, users can select the picture size from REGULAR, PANORAMIC, FULL, 14:9 ZOOM, 16:9 ZOOM, 16:9 ZOOM SUB TITLE modes. When the TV unit received WSS picture signal, the picture can be changed to 16:9 ZOOM mode automatically.
- The TELETEXT SYSTEM has a built-in FASTEXT, and WST system.
- Because this TV unit corresponds to multiplex broadcast, users can enjoy music programs and sporting events with live realism. In addition, BILINGUAL programs can be heard in their original language.
- Users can make VCR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output shown in figure.



MAIN DIFFERENCE LIST

△	Model Name Part Name	AV28T25EKS	AV28T25EKB	AV28T55EKS	AV28T25EIS
△	F.CABI ASSY	LC11313-002B-U	LC11313-005B-U	LC11313-002B-U	←————
△	REAR COVER	LC11282-001C-U	LC11282-002C-U	LC11282-001C-U	←————
△	AV BOARD	LC11010-004A-U	LC11010-005A-U	LC11010-004A-U	←————
	JVC MARK	LC41250-002C-U	LC41250-003C-U	LC41250-002C-U	←————
	RC HAND UNIT	RM-C55H-1C	RM-C51-1C	RM-C55H-1C	←————
	REG CARD	AEM3148-001-E	←————	←————	—————
	CENTER PANEL	LC21065-001A-U	LC21065-002A-U	LC21065-001A-U	←————
△	RATING LABEL	LC11364-003A-U	LC11364-013A-U	LC11364-012A-U	LC11364-016A-U
△	POWER KNOB	LC31201-003A-U	LC31201-006A-U	LC31201-003A-U	←————
	EURO LABEL	AEM1064-003-E	AEM1064-025-E	AEM1064-024-E	AEM1064-005-E
	MAIN PWB	SJL-1002A-U2	←————	←————	SJL-1006A-U2

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SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Unplug the power cord.
2. Remove the 13 screws marked A as shown in the Fig. 1.
3. Withdraw the rear cover toward you.

REMOVING THE SIDE CONTROL JACK ASSEMBLY

- After removing the rear cover.
1. Remove the screw marked B as shown in the Fig.1.
 2. While slightly raise the side control jack assembly, remove the 2 claws under the side control jack assembly.
 3. Disconnect the connector "SR", "SL", "S", "F" and "CN016" as shown in Fig 2.

REMOVING THE SIDE CONTROL PWB

- After removing the rear cover and side control jack assembly.
1. Remove the 3 claws C from back side of the side control jack assembly as shown in Fig.2.
 2. Pull out the SIDE CONTROL PWB.

REMOVING THE CHASSIS

- After removing the rear cover.
1. Slightly raise the both sides of the chassis by hand and remove the two claws under the both sides of the chassis from the front cabinet.
 2. Withdraw the chassis backward.
(If necessary, take off the wire clamp, connectors etc.)

REMOVING THE POWER & DEF. PWB

- After removing the CHASSIS.
1. Remove the 3 screws marked H as shown in the Fig.1.
 2. Remove the POWER & DEF. PWB up ward.

REMOVING THE SPEAKER

- After removing the rear cover.
1. Remove the 2 screws marked D, and remove the speaker holder as shown in Fig. 1.
- NOTE:** When removing the screws marked D of the speaker remove the lower side screw first, and then remove the upper one.
2. Remove the 2 screws E attaching the speaker.
 3. Follow the same steps when removing the other hand speaker.

REMOVING THE AV TERMINAL BOARD

- After removing the rear cover.
1. Remove the 3 screws marked F as shown in the Fig. 1.
 2. Remove the 2 claws marked G under the CHASSIS as shown in Fig. 3.
 3. Remove the AV TERMINAL BOARD slightly in the direction of arrow X as shown in Fig. 3.

CHECKING THE PW BOARD

To check the back side of the PW Board.

- 1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
- 2) Erect the chassis vertically so that you can easily check the back side of the PW Board.

[CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

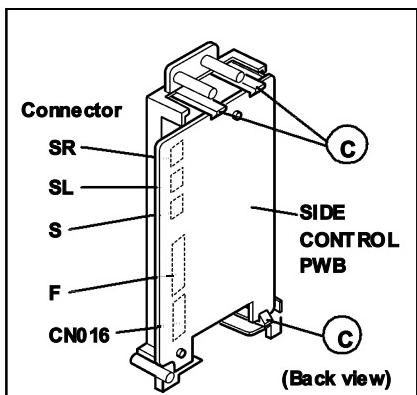


Fig. 2

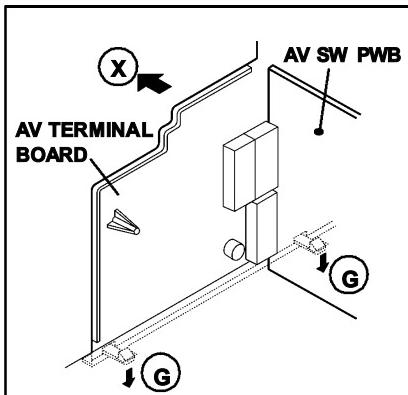


Fig. 3

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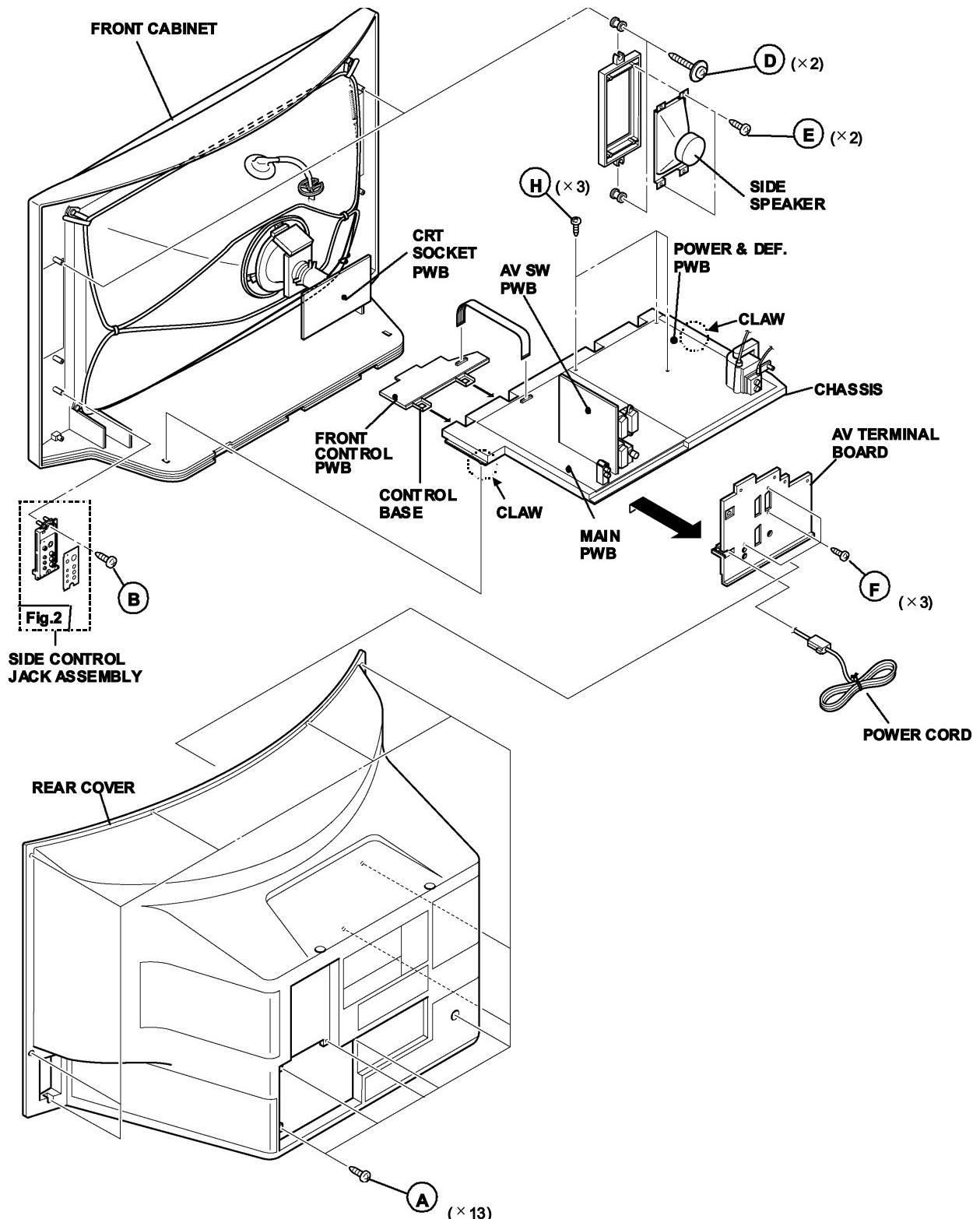


Fig. 1

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REMOVING THE CRT

- * Replacement of the CRT should be performed by 2 or more persons.
- After removing the cover, chassis etc.,
- 1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig.4).
- 2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig.5.
- 3. Remove 4 screws marked by arrows with a box type screw driver as shown in Fig.5.
- Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.
- 4. After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.6.
- The CRT should be assembled according to the opposite sequence of its dismantling steps.
- * The CRT change table should preferably be smaller than the CRT surface, and its height be about 35cm.

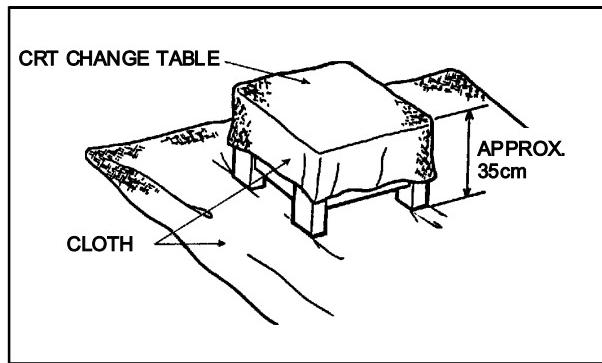


Fig. 4

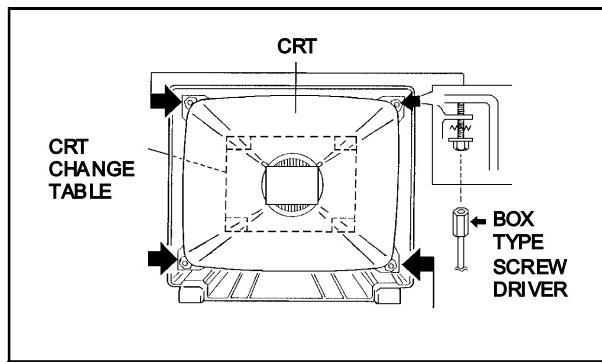


Fig. 5

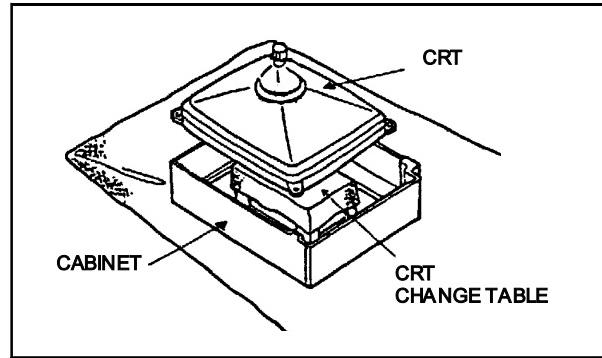


Fig. 6

REPLACEMENT OF MEMORY ICs

1. Memory ICs

This TV uses memory ICs. In the memory ICs, there are memorized data for correctly operating the video and deflection circuits. When replacing memory ICs, be sure to use ICs written with the initial values of data.

2. Procedure for replacing memory ICs

PROCEDURE	
(1) Power off	Switch the power off and unplug the power cord from the outlet.
(2) Replace ICs.	Be sure to use memory ICs written with the initial data values.
(3) Power on	Plug the power cord into the outlet and switch the power on.
(4) Check and set SYSTEM CONSTANT SET:	<ul style="list-style-type: none"> * It must not adjust without signal. <ol style="list-style-type: none"> 1) Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously. 2) The SERVICE MENU screen of Fig. 1 will be displayed. 3) While the SERVICE MENU is displayed, press the INFORMATION key and MUTING key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed. 4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the FUNCTION UP/DOWN key, and set the correct value with the FUNCTION -/+ key. 5) Press the MENU key to memorize the setting value. 6) Press the INFORMATION key twice, and return to the normal screen.
(5) Setting of receive channels	<p>Set the receive channel. For setting, refer to the OPERATING INSTRUCTIONS.</p>
(6) User settings	<p>Check the user setting values of Table 2, and if setting value is different, set the correct value. For setting, refer to the OPERATING INSTRUCTIONS.</p>
(7) Setting of SERVICE MENU	<p>Verify the setting items of the SERVICE MENU of Table 3, and reset where necessary. For setting, refer to the SERVICE ADJUSTMENTS.</p>

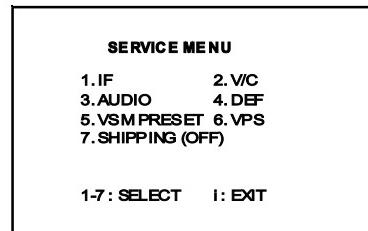


Fig.1



Fig.2

NAME OF REMOTE CONTROL KEY

Names of key	key
INFORMATION	
MUTING	
MENU	
FUNCTION UP/DOWN	
FUNCTION -/+	

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SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

Setting item	Setting content	Setting value		Setting item	Setting content	Setting value
1.DESTINATION	→EK→ EI →EP	AV28T25EKS	AV28T25EIS	4.TV SPEAKER	YES↔ NO	NO
		AV28T25EKB		5.COMB	YES↔ NO	NO
		AV28T55EKS		6.PICTUR TILT	YES↔ NO	NO
2.DOLBY	YES↔ NO	NO		7.FLAT	YES↔ NO	YES
3.BBE	YES↔ NO	NO		8.3-D	YES↔ NO	NO

USER SETTING VALUES (TABLE 2)

Setting item	Initial setting value	Setting item	Initial setting value
SOUND LEVEL	10	SUB POWER	ON
SHIPPING CHANNEL	1	ZOOM MODE	PANORAMIC

USER MENU SETTING			
PICTURE SETTING		EXT SETTING	
TINT CONTRAST BRIGHT SHARP COLOUR	COOL REFER to VSM PRESET	DUBBING	EXT-1→EXT-2
PICTURE FEATURES		FEATURES	
AUTO VNR COLOUR SYSTEM 4:3 AUTO ASPECT	AUTO TV : According to preset CH EXT : AUTO PANORAMIC	SLEEP TIMER BLUE BACK CHILD LOCK DECODER (EXT-2)	OFF ON ID : No.**** ALL CH OFF OFF
SOUND SETTING		INSTALL	
STEREO / I · II BASS TREBLE BALANCE BBE HYPERSOUND SPEAKER	CENTER CENTER CENTER ON OFF ON	LANGUAGE EDIT/MANUAL DEMO	ENGLISH PRESET CH only The others : BLANK OFF

SERVICE MENU SETTING ITEMS (TABLE 3)

Setting item	Setting value	Setting item	Setting value
1. IF	VCO	4. DEF.	1. V-SHIFT 2. V-SIZE 3. SUBTITLE 4. H-CENT 5. H-SIZE 6. EW-PIN 7. TRAPEZ 8. EW. COR. L 9. EW. COR. H 10. V. S-COR 11. V- LIN 12. H-BLK-R 13. H-BLK-L 14. V-EHT 15. H-EHT 16. EHT-GAIN
2. V / C	1. CUT OFF 2. DRIVE 3. BRIGHT 4. CONT. 5. COLOUR 6. HUE 7. BLACK OFFSET (Only SECAM) 8. SHARP	5. VSM PRESET COOL NORMAL WARM	1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. HUE 6. R DRIVE 7. B DRIVE
3. AUDIO (Do not adjust)	1. ERROR LIMIT 2. A2 ID THR 3. BASS 4. TREBLE	6. VPS (Do not adjust)	VPS PDC WSS
		7. SHIPPING (Do not adjust)	ON / OFF

REPLACEMENT OF CHIP COMPONENT

■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

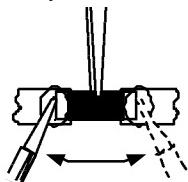
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

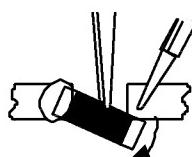
1. How to remove Chip parts

◆ Resistors, capacitors, etc

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

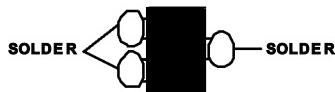


- (2) Shift with tweezers and remove the chip part.

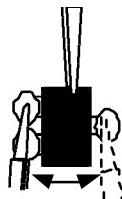


◆ Transistors, diodes, variable resistors, etc

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

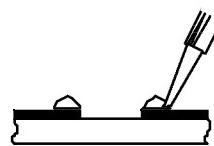


Note : After removing the part, remove remaining solder from the pattern.

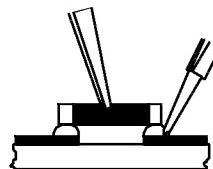
2. How to install Chip parts

◆ Resistors, capacitors, etc

- (1) Apply solder to the pattern as indicated in the figure.



- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

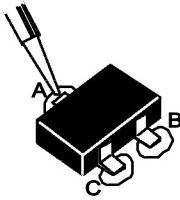


◆ Transistors, diodes, variable resistors, etc

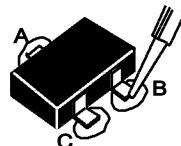
- (1) Apply solder to the pattern as indicated in the figure.

- (2) Grasp the chip part with tweezers and place it on the solder.

- (3) First solder lead A as indicated in the figure.



- (4) Then solder leads B and C.



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SERVICE ADJUSTMENTS

BEFORE STARTING SERVICE ADJUSTMENT

1. There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.
2. The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
3. Make sure that connection is correctly made to AC power source.
4. Turn on the power of the TV and measuring instrument for warming up for at least 30 minutes before starting adjustment.
5. If the receive or input signal is not specified, use the most appropriate signal for adjustment.
6. Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.
7. Preparation for adjustment (presetting):
Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT:

● Setting position

PICTURE MODE (VSM)	NORMAL
SLEEP TIMER	OFF
BALANCE	CENTER
ZOOM	PANORAMIC

MEASURING INSTRUMENT AND FIXTURES

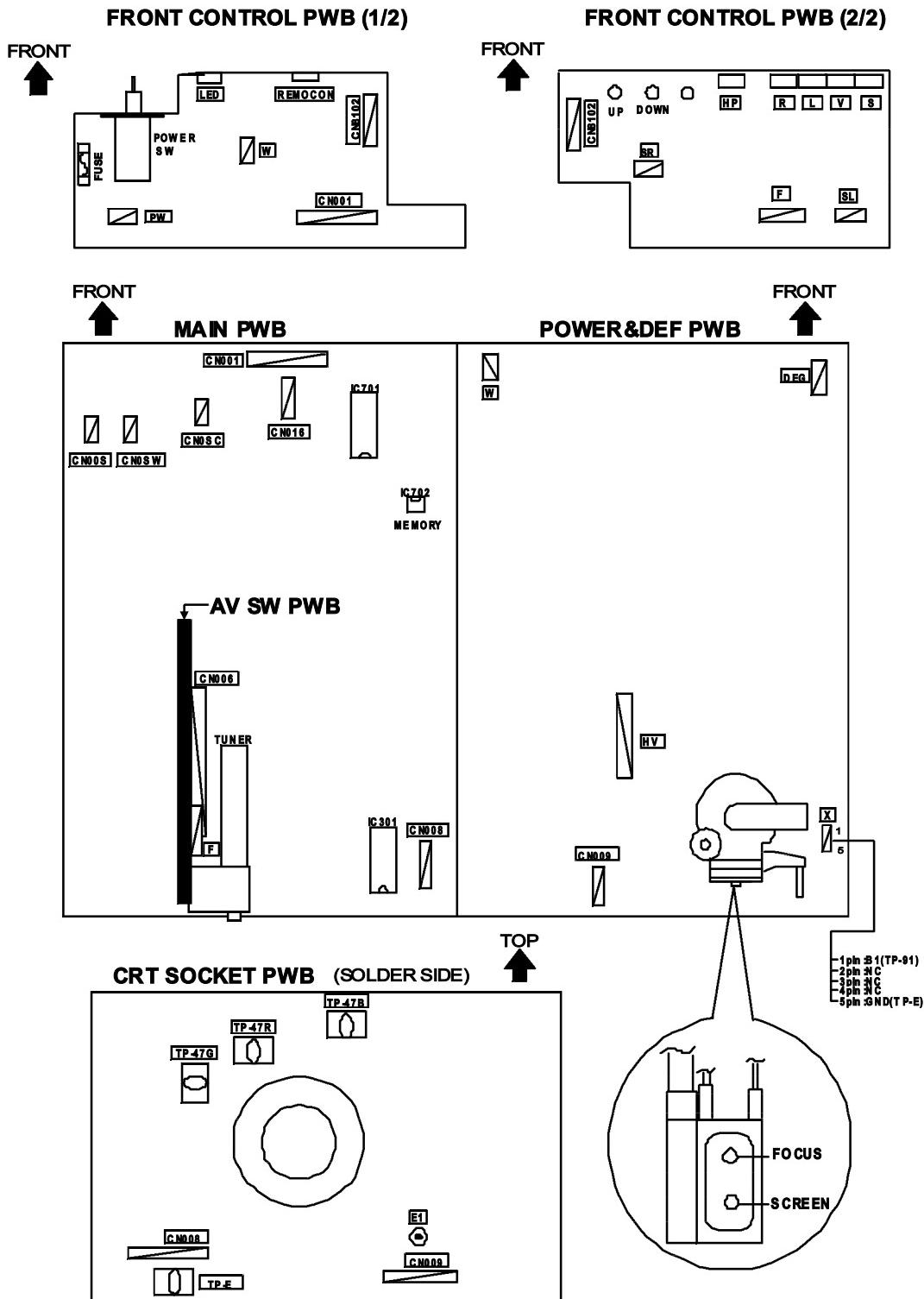
1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [PAL / NTSC]
4. Remote control unit

ADJUSTMENT ITEMS

- B1 POWER SUPPLY check.
- HIGH VOLTAGE check.
- FOCUS Adjustment.
- IF circuit adjustment.
- VSM preset adjustment.
- VIDEO / CHROMA circuit adjustment.
- DEFLECTION circuit adjustment.
- H BLANKING adjustment.
- AUDIO circuit adjustment. (Do not adjust)

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ADJUSTMENT LOCATIONS



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BASIC OPERATION SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings (adjustments):

- (1) 1.IF This mode adjusts the setting values of the IF circuit.
- (2) 2.V/C This mode adjusts the setting values of the VIDEO / CHROMA circuit.
- (3) 3.AUDIO This mode adjusts the setting values of the multiplicity SOUND circuit. (Do not adjust)
- (4) 4.DEF This mode adjusts the setting values of the DEFLECTION circuit for each aspect mode given below.

REGULAR	(50/60Hz)
PANORAMIC	(50/60Hz)
14:9 ZOOM	(50/60Hz)
16:9 ZOOM	(50/60Hz)
16:9 SUB TITLE	(50/60Hz)
FULL	(50/60Hz)
- (5) 5.VSM PRESET This mode adjusts the initial setting values of COOL, NORMAL and WARM.
(VSM: Video Status Memory)
- (6) 6.VPS This mode shows the monitor of the VPS, PDC and WSS. (Do not adjust)
(VPS : Video Program System, PDC : Program Delivery Code, WSS : Wide Screen Signalling)
- (7) 7.SHIPPING This menu is set at shipping. (Do not adjust)

3. BASIC OPERATION OF SERVICE MENU

(1) How to enter SERVICE MENU

Press the INFORMATION key and the MUTING key of the REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig. 1 will be displayed.

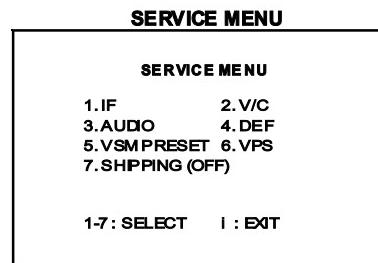


Fig.1

(2) Selection of SUB MENU SCREEN

Press one of keys 1~7 of the REMOTE CONTROL UNIT and select the SUB MENU SCREEN (See Fig. 3), from the SERVICE MENU.

SERVICE MENU → SUB MENU

1. IF
2. V / C
3. AUDIO
4. DEF.
5. VSM PRESET
6. VPS
7. SHIPPING

Name of key	key
INFORMATION	[i]
MUTING	[MUTING]
MENU	[OK]
FUNCTION UP/DOWN	[▲▼]
FUNCTION -/+	[◀▶]

Fig.2

AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

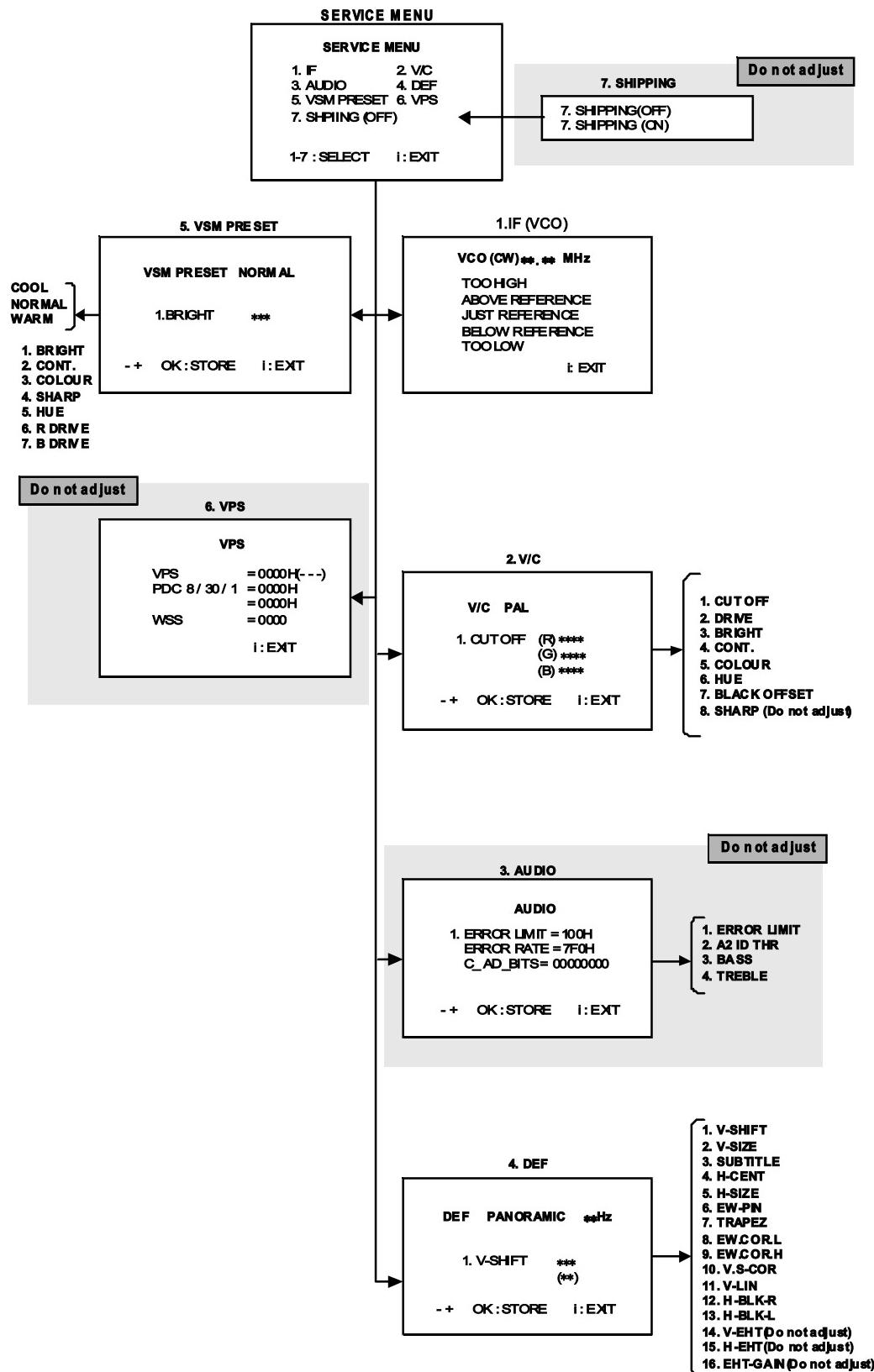


Fig. 3 SUB MENU SCREEN

AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

(3) Method of Setting

1) Method of Setting 1.IF

[VCO]

- ① 1 Key Select 1.IF.
- ② The VCO (CW) screen will be displayed in yellow when the AFC voltage is at a certain level and in blue when it is at other levels.
- ③ INFORMATION Key Return to the SERVICE MENU screen.

2) Method of setting 2.V/C, 3.AUDIO, 4.DEF and 5.VSM PRESET.

- ① 2~5 Key Select one from 2.V/C, 3.AUDIO, 4.DEF and 5.VSM PRESET.
- ② FUNCTION UP / DOWN Key Select setting items.
- ③ FUNCTION -/+ Set (adjust) the setting values of the setting items.
(Use the number keys of the REMOTE CONTROL UNIT for setting of WHITE BALANCE.
For the setting, refer to each item concerned.)
- ④ MENU Key Memorize the setting value.
(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key -
if you do, the values will not be stored in memory.)
- ⑤ INFORMATION Key Return to the SERVICE MENU screen.

3) Method of setting 6.VPS and 7.SHIPPING.

- 6.VPS This mode displayed monitor of VPS systems. (Do not adjust)
- 7.SHIPPING When the MAIN POWER is turned on with the state of SHIPPING ON, you get a mode that initializes every existing set value including language selection. Because this mode is set at the factory upon completion of the adjustment, you need not to use it for service.
(Do not adjust in this mode.)

(4) Release of SERVICE MENU

- 1) After completing the setting, return to the SERVICE MENU, then again press the INFORMATION key.

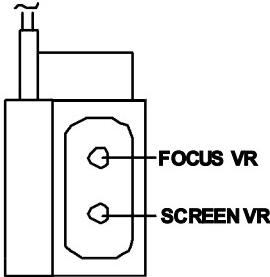
AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

ADJUSTMENTS

CHECK ITEM

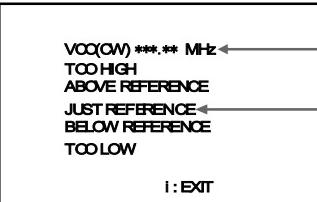
Item	Measuring instrument	Testpoint	Adjustment part	Description
B1 POWER SUPPLY Check	Signal generator DC voltmeter Remote control unit	TP-91(B1) TP-E(↔) [X connector on POWER DEF PWB]		<ol style="list-style-type: none"> Receive a any broadcast. Push the "ZOOM" key and select the PANORAMIC mode. Select 2.V/C from the SERVICE MENU. Select 1.CUT OFF with Function UP/DOWN key. Show one horizontal line with the 1 key. Turn the SCREEN VR, the whole black screen display. Connect a DC voltmeter to TP-91(B1) and TP-E(↔). Make sure that the voltage is DC143.0V±2.0V. Readjust the SCREEN VR to appear the horizontal line faintly, and cancel the horizontal line to press the 2 key.
HIGH VOLTAGE Check	Signal generator DC volunteer Remote control unit	CRT anode Chassis GND		<ol style="list-style-type: none"> Receive a any broadcast. Push the "ZOOM" key and select the PANORAMIC mode. Select 2.V/C from the SERVICE MENU. Select 1.CUT OFF with Function UP/DOWN key. Show one horizontal line with the 1 key. Turn the SCREEN VR, the whole black screen display. Connect a DC voltmeter to CRT ANODE and chassis GND. Make sure that the voltage is DC 31.0kV/-1.5kV^{MAX}. Readjust the SCREEN VR to appear the horizontal line faintly, and connect the horizontal line to press 2 key.

ADJUSTMENT OF FOCUS

Item	Measuring instrument	Testpoint	Adjustment part	Description
FOCUS Adjustment	Signal generator		FOCUS VR [In FBT]	<ol style="list-style-type: none"> Receive a cross-hatch signal. Select PANORAMIC mode. While watching the screen, adjust the FOCUS VR to make the vertical and horizontal lines as fine and sharp as possible. Make sure that when the screen is darkened, the lines remain in good focus. 

AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

IF CIRCUIT ADJUSTMENT

Item	Measuring instrument	Testpoint	Adjustment part	Description
Adjustment of VCO	Remote control unit			<ul style="list-style-type: none"> Under normal conditions, no adjustment is required. <ol style="list-style-type: none"> Receive any broadcast. Select 1.IF from the SERVICE MENU. Check the characters colour of the JUST REFERENCE displayed to yellow. 

VSM PRESET ADJUST SETTING

Item	Measuring instrument	Testpoint	Adjustment part	Description																																
Setting of VSM PRESET	Remote control unit		1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. HUE 6. R DRIVE 7. B DRIVE	<ol style="list-style-type: none"> Select 5.VSM PRESET from the SERVICE MENU. Select COOL with the MENU key of the remote control unit. Adjust the FUNCTION UP/DOWN and +/- key to bring the set values of 1.BRIGHT ~ 7.B DRIVE to the values shown in the table. Press the MENU key and memorize the set value. Respectively select the VSM PRESET mode for NORMAL and WARM, and make similar adjustment as in 3 above. Press the MENU key and memorize the set value. <p>* Refer to OPERATING INSTRUCTIONS for the PICTURE MODE.</p> <table border="1" data-bbox="631 1349 1287 1918"> <thead> <tr> <th>Setting item \ VSM preset mode</th> <th>COOL</th> <th>NORMAL</th> <th>WARM</th> </tr> </thead> <tbody> <tr> <td>1. BRIGHT SETTING VALUE</td> <td>+0</td> <td>+0</td> <td>+0</td> </tr> <tr> <td>2. CONT. SETTING VALUE</td> <td>+12</td> <td>+10</td> <td>+2</td> </tr> <tr> <td>3. COLOUR SETTING VALUE</td> <td>+6</td> <td>+0</td> <td>-2</td> </tr> <tr> <td>4. SHARP SETTING VALUE</td> <td>+0</td> <td>+0</td> <td>-2</td> </tr> <tr> <td>5. HUE SETTING VALUE</td> <td>+0</td> <td>+0</td> <td>+0</td> </tr> <tr> <td>6. R DRIVE SETTING VALUE</td> <td>-20</td> <td>+0</td> <td>+16</td> </tr> <tr> <td>7. B DRIVE SETTING VALUE</td> <td>+23</td> <td>+0</td> <td>-13</td> </tr> </tbody> </table> <p style="text-align: center;">SETTING VALUES OF VSM PRESET</p>	Setting item \ VSM preset mode	COOL	NORMAL	WARM	1. BRIGHT SETTING VALUE	+0	+0	+0	2. CONT. SETTING VALUE	+12	+10	+2	3. COLOUR SETTING VALUE	+6	+0	-2	4. SHARP SETTING VALUE	+0	+0	-2	5. HUE SETTING VALUE	+0	+0	+0	6. R DRIVE SETTING VALUE	-20	+0	+16	7. B DRIVE SETTING VALUE	+23	+0	-13
Setting item \ VSM preset mode	COOL	NORMAL	WARM																																	
1. BRIGHT SETTING VALUE	+0	+0	+0																																	
2. CONT. SETTING VALUE	+12	+10	+2																																	
3. COLOUR SETTING VALUE	+6	+0	-2																																	
4. SHARP SETTING VALUE	+0	+0	-2																																	
5. HUE SETTING VALUE	+0	+0	+0																																	
6. R DRIVE SETTING VALUE	-20	+0	+16																																	
7. B DRIVE SETTING VALUE	+23	+0	-13																																	

VIDEO / CHROMA CIRCUIT ADJUSTMENT

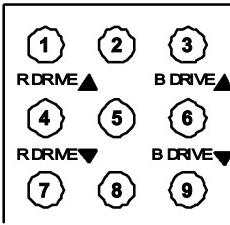
The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.
The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

Setting Item (Adjustment Item)	Initial setting value	
1. CUTOFF	R	-100
	G	-100
	B	-100
2. DRIVE	R	+0
	B	+0
3. BRIGHT		+0
4. CONT.		-10

Setting item	Colour system		Initial setting value	
	PAL	NTSC 3.58 NTSC 4.43		
5. COLOUR			+5	+5
6. HUE				+2
7. BLACK OFFSET (SECAM only) (Do not adjust)	R-Y			
	B-Y			
8. SHARP (Do not adjust)		-20		←

Item	Measuring instrument	Testpoint	Adjustment part	Description
Adjustment of WHITE BALANCE (Low Light)	Signal generator Remote control unit		1.CUT OFF (R)*** (G)*** (B)*** SCREENVR [In FBT]	<ul style="list-style-type: none"> Set the PICTURE MODE to NORMAL. <ol style="list-style-type: none"> Receive a black and white signal (colour off). Select 2.V/C from the SERVICE MENU. Select 1.CUT OFF with the FUNCTION UP/DOWN key. Push the "ZOOM" key and select the "REGULAR" mode. Show one horizontal line with the 1 key. Gradually turn the SCREEN VR from the left end to the right direction to bring one of the red, green or blue colour faintly visible. Press 4~9 key, and bring out the other 2 colours and make one horizontal line visible in white. Turn the SCREEN VR and bring one white horizontal line faintly visible. Press 2 key, turn off 1.CUT OFF screen. Press the MENU key and memorize the set value. <p>NOTE: This adjustment is done by the REGULAR mode.</p>

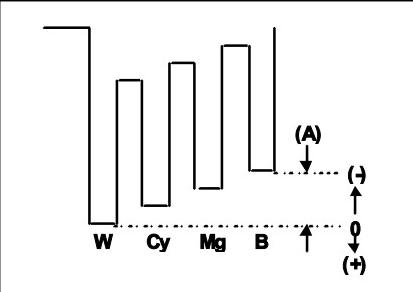
AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

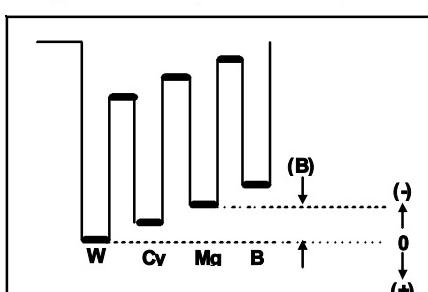
Item	Measuring Instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE (High Light)	Signal generator Remote control unit		2.DRIVE (R) * * * (B) * * *	<ul style="list-style-type: none"> The adjustment for Low Light WHITE BALANCE should be finished. Set the PICTURE MODE to NORMAL. Receive a black and white signal (colour off). Push the "ZOOM" key and select the "PANORAMIC" mode. Select 2.V/C from the SERVICE MENU. Select 2.DRIVE with the FUNCTION UP/DOWN key. Change the screen colour to white with 4 key or 7 key (Drive of Red), 6 key or 9 key (Drive of Blue). Press the MENU key, and memorize the set values. 
Adjustment of SUB BRIGHT	Remote control unit		3.BRIGHT	<ol style="list-style-type: none"> Receive any broadcast. Push the "ZOOM" key and select "PANORAMIC" mode. Select 2.V/C from the SERVICE MENU. Select 3.BRIGHT with the FUNCTION UP/DOWN key. Set the initial setting value with the FUNCTION -/+ key. If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness. Press the MENU key and memorize the set value.
Adjustment of SUB CONTRAST	Remote control unit		4.CONT.	<ol style="list-style-type: none"> Receive any broadcast. Push the "ZOOM" key and select the "PANORAMIC" mode. Select 2.V/C from the SERVICE MENU. Select 4.CONT with the FUNCTION UP/DOWN key. Set the initial setting value with the FUNCTION -/+ key. If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast. Press the MENU key and memorize the set value.

AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

Item	Measuring instrument	Testpoint	Adjustment part	Description
Adjustment of SUB COLOUR I	Remote control unit		5.COLOUR (PAL~NTSC) PAL COLOUR NTSC COLOUR	<p>[Method of adjustment without measuring instrument]</p> <p>(PAL COLOUR)</p> <ol style="list-style-type: none"> 1. Receive PAL broadcast. 2. Push the "ZOOM" key and select the "PANORAMIC" mode. 3. Select 2.V/C from the SERVICE MENU. 4. Select 5.COLOUR with the FUNCTION UP/DOWN key. 5. Set the initial setting value for PAL COLOUR with the FUNCTION - or + key. 6. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. 7. Press the MENU key and memorize the set value. <p>(NTSC 3.58 COLOUR)</p> <ol style="list-style-type: none"> 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal from the EXT terminal. 2. Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above. <hr/> <p>(NTSC 4.43 COLOUR)</p> <ol style="list-style-type: none"> 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

Item	Measuring instrument	Testpoint	Adjustment part	Description		
Adjustment of SUB COLOUR II	Signal generator Oscilloscope Remote control unit	TP-47B TP-E(↓) [CRT SOCKET PWB]	5.COLOUR (PAL~NTSC) PAL COLOUR	<p>[Method of adjustment using measuring instrument]</p> <p>(PAL COLOUR)</p> <ol style="list-style-type: none"> Receive a PAL full field colour bar signal (75% white). Push the "ZOOM" key and select the "PANORAMIC" mode. Select 2.V/C from the SERVICE MENU. Select 5.COLOUR with the FUNCTION UP/DOWN key. Set the initial setting value of PAL COLOUR with the FUNCTION - or + key. Connect the oscilloscope between TP-47B and TP-E(↓) on the CRT SOCKET PWB. Adjust PAL COLOUR and bring the value of (A) in the illustration to the values as shown given below table (Voltage difference between white (W) and blue (B)). Press the MENU key and memorize the setting value.  <table border="1" data-bbox="880 909 1245 1044"> <tr> <td>VOLTAGE (W-B)</td> </tr> <tr> <td>+2V</td> </tr> </table>	VOLTAGE (W-B)	+2V
VOLTAGE (W-B)						
+2V						
			NTSC COLOUR	<p>(NTSC 3.58 COLOUR)</p> <ol style="list-style-type: none"> Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. Set the initial setting value of NTSC 3.58 COLOUR with the FUNCTION -/+ key. Adjust NTSC 3.58 COLOUR and bring the value of (A) in the illustration to the values as shown given below table (Voltage difference between white (W) and blue (B)). Press the MENU key and memorize the setting value. <table border="1" data-bbox="880 1370 1245 1504"> <tr> <td>VOLTAGE (W-B)</td> </tr> <tr> <td>0V</td> </tr> </table>	VOLTAGE (W-B)	0V
VOLTAGE (W-B)						
0V						
				<p>(NTSC 4.43 COLOUR)</p> <ol style="list-style-type: none"> When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values. 		

Item	Measuring Instrument	Testpoint	Adjustment part	Description		
Adjustment of SUB HUE I	Remote control unit		6.HUE	[Method of adjustment without measuring instrument]		
			NTSC 3.58 HUE	<p>[NTSC 3.58 HUE]</p> <ol style="list-style-type: none"> 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Push the "ZOOM" key and select the "PANORAMIC" mode. 3. Select 2.V/C from the SERVICE MENU. 4. Select 6. HUE with the FUNCTION UP/DOWN key. 5. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION -/+ key. 6. If you cannot get the best hue with the initial setting value, make fine adjustment until you get the best hue. 7. Press the MENU key and memorize the set value. 		
			NTSC 4.43 HUE	<p>[NTSC 4.43 HUE]</p> <ol style="list-style-type: none"> 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values. 		
Adjustment of SUB HUE II	Signal generator Oscilloscope Remote control unit	TP-47B TP-E(↔) [CRT SOCKET PWB]	6. HUE	[Method of adjustment using measuring instrument]		
			NTSC 3.58 HUE	<p>[NTSC 3.58 HUE]</p> <ol style="list-style-type: none"> 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 6. HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION - or + key. 5. Connect the oscilloscope between TP-47B and TP-E(↔) on the CRT SOCKET PWB. 6. Adjust NTSC 3.58 HUE to bring the value of (B) in the illustration to the values shown given below table (voltage difference between white (W) and magenta (Mg)). 7. Press the MENU key and memorize the setting value  <table border="1" data-bbox="983 1617 1348 1751"> <tr> <td>VOLTAGE (W-Mg)</td> </tr> <tr> <td>0V</td> </tr> </table>	VOLTAGE (W-Mg)	0V
VOLTAGE (W-Mg)						
0V						
			NTSC 4.43 HUE	<p>[NTSC 4.43 HUE]</p> <ol style="list-style-type: none"> 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values. 		

AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

DEFLECTION CIRCUIT ADJUSTMENT

There are 6 modes of the adjustment.

(1) 50Hz mode (①PANORAMIC ②FULL ③REGULAR ④14:9 ZOOM ⑤16:9 ZOOM ⑥16:9 ZOOM SUB TITLE)

(2) 60Hz mode (each aspect mode) Depending upon the kind of signals (vertical frequency 50Hz / 60Hz).

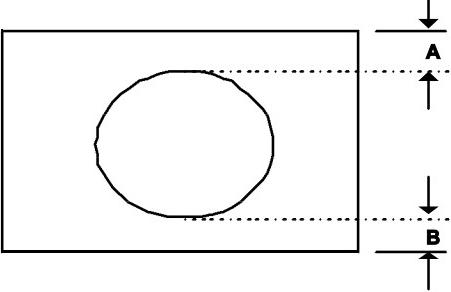
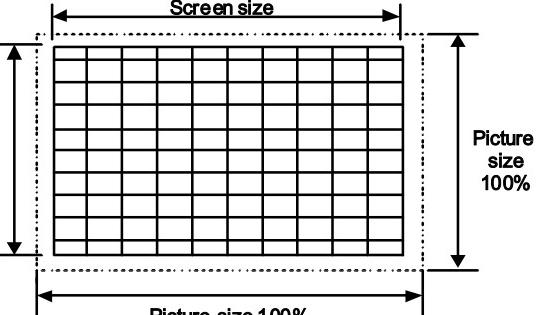
- The adjustment using the remote control unit is made on the basis of the initial setting values.
- When the 50Hz PANORAMIC mode has been established, the setting of other modes will be done automatically. However, if the picture quality has not been optimized, adjust each mode again, respectively.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

Initial setting value (1/2)

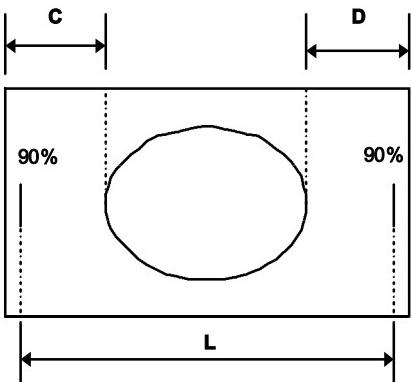
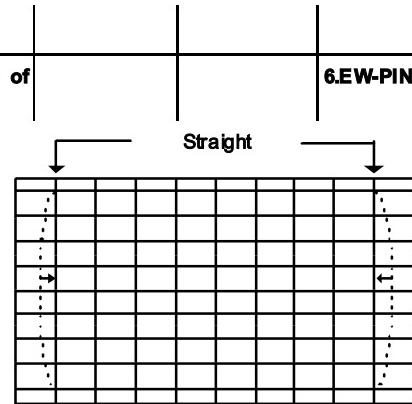
Setting item	Adjustment name	Initial setting value							
		PANORAMIC		14:9 ZOOM		16:9 ZOOM		16:9 ZOOM SUB TITLE	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	Vertical center	+0	-1	+0	+0	+0	+0	+0	+0
2. V-SIZE	Vertical height	+0	-2	+10	+9	+22	+22	+28	+28
3. SUBTITLE	SUBTITLE BOTTOM Vertical linearity	-8	+0	+0	+0	+0	+0	+12	+12
4. H-CENT	Horizontal center	-3	+5	+0	+0	+0	+0	+0	+0
5. H-SIZE	Horizontal width	+0	-1	-5	-5	-7	-6	-7	-6
6. EW-PIN	Side pin correction	-10	+0	+0	+0	+0	+0	+0	+0
7. TRAPEZ	Trapezium distortion correction	+0	+0	+0	+0	+0	+0	+0	+0
8. EW.COR.L	CORNER PIN correction Low side	-1	+0	+0	+0	+0	+0	+0	+0
9. EW.COR.H	CORNER PIN correction High side	-1	+0	+0	+0	+0	+0	+0	+0
10.V.S-COR	Vertical height correction	+15	+0	-15	-15	-15	-15	-15	-15
11.V-LIN	Vertical Linearity	+0	+0	+0	+0	+0	+0	+0	+0
12.H-BLK-R	BLANKING POSITION of Right side	+0	+0	+22	+27	+0	+0	+0	+0
13.H-BLK-L	BLANKING POSITION of Left side	+0	+0	+12	+9	+0	+0	+0	+0
14.V-EHT (Do not adjust)	V size correction level caused by EHT change	-2	+0	+0	+0	+0	+0	+0	+0
15.H-EHT (Do not adjust)	H size correction level caused by EHT change	-3	+0	+0	+0	+0	+0	+0	+0
16.EHT-GAIN (Do not adjust)	Size correction gain caused by EHT change	+0	+0	+0	+0	+0	+0	+0	+0

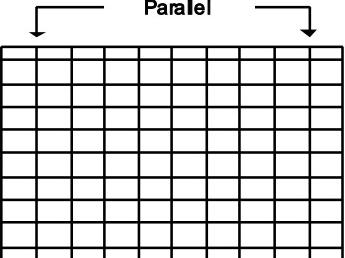
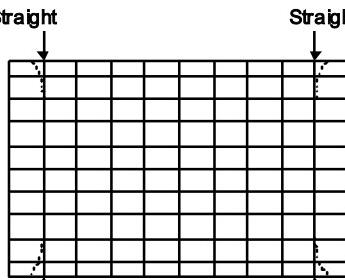
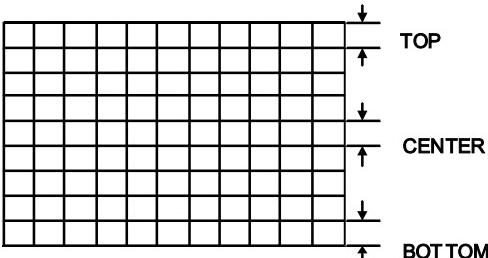
Initial setting value (2/2)

Setting item	Adjustment name	Initial setting value			
		FULL		REGULAR	
		50Hz	60Hz	50Hz	60Hz
1. V-SHIFT	Vertical center	+0	+0	+0	+0
2. V-SIZE	Vertical height	-9	-9	-7	-7
3. SUBTITLE	SUBTITLE BOTTOM Vertical linearity	+0	+0	+0	+0
4. H-CENT	Horizontal center	+0	+0	+0	+0
5. H-SIZE	Horizontal width	-7	-6	-15	-15
6. EW-PIN	Side pin correction	+0	+0	+0	+0
7. TRAPEZ	Trapezium distortion correction	+0	+0	+0	+0
8. EW.COR.L	CORNER PIN correction Low side	+0	+0	+0	+0
9. EW.COR.H	CORNER PIN correction High side	+0	+0	+0	+0
10.V.S-COR	Vertical height correction	-15	-15	-15	-15
11.V-LIN	Vertical Linearity	+0	+0	+0	+0
12.H-BLK-R	BLANKING POSITION of Right side	+0	+0	+22	+27
13.H-BLK-L	BLANKING POSITION of Left side	+0	+0	+12	+9
14.V-EHT (Do not adjust)	V size correction level caused by EHT change	+0	+0	+0	+0
15.H-EHT (Do not adjust)	H size correction level caused by EHT change	+0	+0	+0	+0
16.EHT-GAIN (Do not adjust)	Size correction gain caused by EHT change	+0	+0	+0	+0

Item	Measuring instrument	Testpoint	Adjustment part	Description																					
Adjustment of V-SHIFT	Signal generator Remote control unit		1.V-SHIFT	<p>[50Hz PANORAMIC mode]</p> <ol style="list-style-type: none"> 1. Receive a circle pattern signal of vertical frequency 50Hz. 2. Select 4.DEF from the SERVICE MENU. 3. Select 1.V-SHIFT with the FUNCTION UP/DOWN key. 4. Adjust V-SHIFT to make A = B. 5. Press the MENU key and memorize the set value. <p>* NOTE : Check the adjustment value above in other ZOOM mode, If it is a wrong adjustment, re-adjust in "PANORAMIC" mode and adjust by <11. V-LIN>. And store the get value.</p> 																					
Adjustment of V-SIZE & SUBTITLE			2.V-SIZE 3.SUBTITLE	<ol style="list-style-type: none"> 6. Receive a cross-hatch signal. 7. Select 2.V-SIZE and set the initial setting value. 8. Adjust V-SIZE and make sure that the vertical screen size of the picture size is in the bellow table. 9. Press the MENU key and memorize the set value. 10. When adjust the [SUBTITLE], select "3.SUBTITLE" and adjust to under part of picture size. 11. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the vertical screen size is in the table below. 12. Press the MENU key and memorize the set value.  <table border="1" data-bbox="323 1522 1387 1715"> <thead> <tr> <th>ASPECT MODE</th> <th>PANORAMIC</th> <th>14 : 9 ZOOM</th> <th>16 : 9 ZOOM</th> <th>16 : 9 ZOOM SUB TITLE</th> <th>FULL</th> <th>REGULAR</th> </tr> </thead> <tbody> <tr> <td>SCREEN TOP</td> <td>87%</td> <td>80%</td> <td>73%</td> <td>70%</td> <td>92%</td> <td>92%</td> </tr> <tr> <td>SCREEN BOTTOM</td> <td>87%</td> <td>80%</td> <td>73%</td> <td>83%</td> <td>92%</td> <td>92%</td> </tr> </tbody> </table> <p style="text-align: center;">[SCREEN SIZE]</p>	ASPECT MODE	PANORAMIC	14 : 9 ZOOM	16 : 9 ZOOM	16 : 9 ZOOM SUB TITLE	FULL	REGULAR	SCREEN TOP	87%	80%	73%	70%	92%	92%	SCREEN BOTTOM	87%	80%	73%	83%	92%	92%
ASPECT MODE	PANORAMIC	14 : 9 ZOOM	16 : 9 ZOOM	16 : 9 ZOOM SUB TITLE	FULL	REGULAR																			
SCREEN TOP	87%	80%	73%	70%	92%	92%																			
SCREEN BOTTOM	87%	80%	73%	83%	92%	92%																			

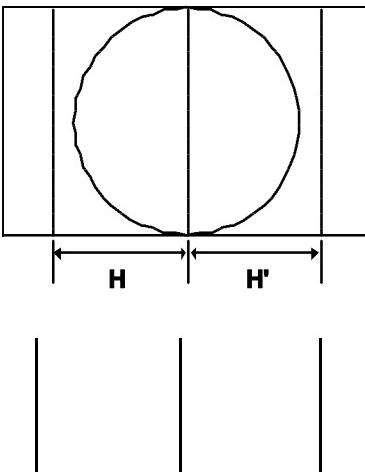
AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

Item	Measuring instrument	Testpoint	Adjustment part	Description														
Adjustment of HORIZONTAL CENTER			4.H-CENT.	<p>13. Receive a circle pattern signal. 14. Select 4.H-CENT and set the initial setting value. 15. Adjust H-CENT to make C=D. 16. Press the MENU key and memorize the set value.</p> 														
Adjustment of HORIZONTAL SIZE			5.H-SIZE	<p>17. Receive a circle pattern signal. 18. Select 5.H-SIZE and set the initial setting value. 19. Adjust H-SIZE and make sure that the horizontal screen size of the picture size is in the bellow table. 20. Press the MENU key and memorize the set value.</p> <p>* The numeric of the REGULAR and 14:9 ZOOM modes are shown the length of the 90% horizontal size position (L) as shown in the figure above.</p> <p>21. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the horizontal screen size of the each ASPECT mode is in the below table. 22. Press the MENU key and memorize the set value.</p> <table border="1" data-bbox="142 1370 1333 1504"> <thead> <tr> <th>ASPECT MODE</th><th>PANORAMIC</th><th>14:9 ZOOM</th><th>16:9 ZOOM</th><th>16:9 ZOOM SUB TITLE</th><th>FULL</th><th>REGULAR</th></tr> </thead> <tbody> <tr> <td>H SIZE</td><td>PAL=95% NTSC=94%</td><td>L=495mm</td><td>92%</td><td>92%</td><td>92%</td><td>L=450mm</td></tr> </tbody> </table> <p style="text-align: center;">[SCREEN SIZE]</p> 	ASPECT MODE	PANORAMIC	14:9 ZOOM	16:9 ZOOM	16:9 ZOOM SUB TITLE	FULL	REGULAR	H SIZE	PAL=95% NTSC=94%	L=495mm	92%	92%	92%	L=450mm
ASPECT MODE	PANORAMIC	14:9 ZOOM	16:9 ZOOM	16:9 ZOOM SUB TITLE	FULL	REGULAR												
H SIZE	PAL=95% NTSC=94%	L=495mm	92%	92%	92%	L=450mm												
Adjustment of EW-PIN			6.EW-PIN	<p>23. Select 6.EW-PIN and set the initial setting value 24. Adjust EW-PIN and make the 2nd,vertical lines at the left and right edges of the screen straight. Also make sure that the 3rd vertical lines are straight. 25. Press the MENU key and memorize the set value.</p>														

Item	Measuring instrument	Testpoint	Adjustment part	Description
Adjustment of TRAPEZIUM	Signal generator Remote control unit		7.TRAPEZ	<p>26. Receive a cross-hatch signal. 27. Select 7.TRAPEZ with the FUNCTION UP/DOWN key. 28. Set the initial setting value of TRAPEZIUM with the FUNCTION - or + key. 29. Adjust TRAPEZIUM and bring the VERTICAL lines at the right and left edges of the screen parallel . 30. Press the MENU key and memorize the set value.</p> 
Adjustment of SIDE PIN CORRECTION HIGH/LOW	Signal generator Remote control unit		8.EW. COR. L 9.EW. COR. H	<p>31. Select 8.EW. COR. L with the FUNCTION UP / DOWN key. 32. Set the initial setting value of EW. COR. L with the FUNCTION - or + key. 33. Adjust EW. COR. L, and bring the straight line at the low corner. 34. Select 9.EW. COR. H with the FUNCTION UP / DOWN key. 35. Set the initial setting value of EW. COR. H with the FUNCTION - or + key. 36. Adjust EW. COR. H, and bring the straight line at the upper corner. 37. Press the MENU key and memorize the set value.</p> 
Adjustment of V.LINEARITY & V-HEIGHT CORRECTION			10. V-S.CR 11. V-LIN	<ul style="list-style-type: none"> ● When the vertical linearity has been deteriorated remarkably, perform the following steps. <p>38. Receive a cross-hatch signal. 39. Select 11.V-LIN with the FUNCTION UP / DOWN key. 40. Set the initial setting value of 11.V-LIN with the FUNCTION - / + key. 41. Select 10.V-S.COR with the FUNCTION UP / DOWN key. 42. Set the initial setting value of 10.V-S.COR with the FUNCTION - / + key. 43. Adjust 11.V-LIN and 10.V-S.COR so that the spaces of each line on TOP, CENTER and BOTTOM become uniform.</p> <p>NOTE : In "PANORAMIC" & "16 : 9 ZOOM SUBTITLE" mode, this adjustment should not be done.</p> <p>At first the adjustment in 50Hz-PANORAMIC mode should be done, then the data for the other zoom mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 60Hz PANORAMIC mode. If the adjustment in 50Hz each zoom mode has been done and stored, the data for the same aspect modes in 60Hz is corrected in the respective value. Only the data for the other aspect mode in 60Hz is corrected for itself.</p> 

AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

H BLANKING ADJUSTMENT

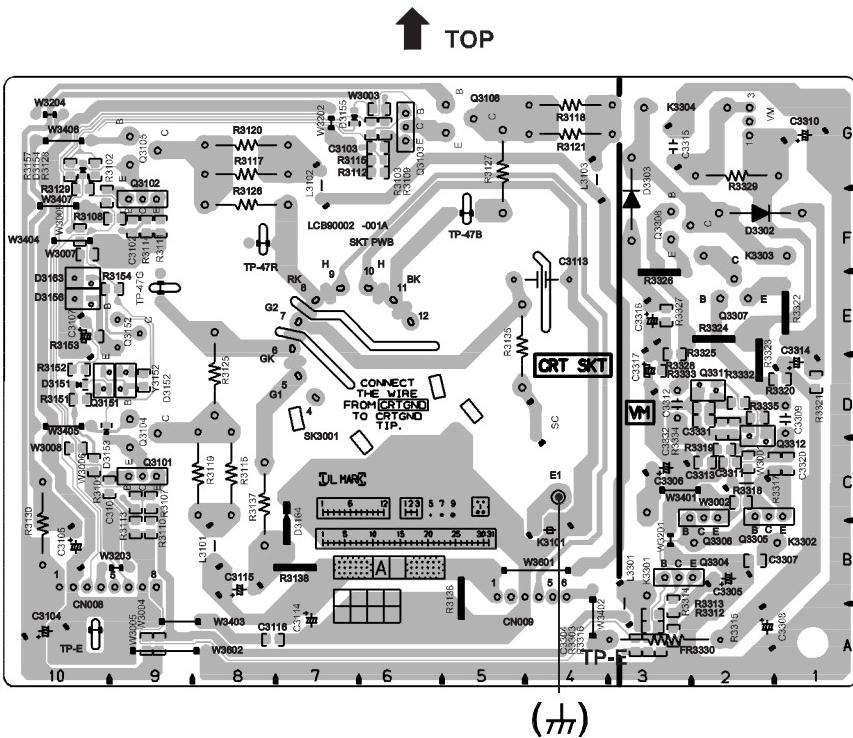
Item	Measuring Instrument	Test point	Adjustment part	Description
Adjustment of HORIZONTAL BLANKING			H.BLK Capacitor [On MAIN PWB]	<ol style="list-style-type: none"> Receive the PAL circle pattern signal. Select 4.DEF from the SERVICE MENU. Select the aspect [14:9 ZOOM] mode. Select 12.H-BLK-R with the FUNCTION UP/DOWN key and adjust H-BLANKING so that 92% of the picture on the right side is displayed. Select 13.H-BLK-L with the FUNCTION UP/DOWN key and adjust H-BLANKING so that 92% of the picture on the left side is displayed. Press the MENU key and memorize the set value. Select the aspect [REGULAR] mode. Select 12.H-BLK-R with the FUNCTION UP/DOWN key and adjust H-BLANKING so that 92% of the picture on the right side is displayed. Select 13.H-BLK-L with the FUNCTION UP/DOWN key and adjust H-BLANKING so that 92% of the picture on the left side is displayed. Press the MENU key and memorize the set value. 

AUDIO CIRCUIT ADJUSTMENT

- Do not touch 3.AUDIO (1.CONC LIMIT, 2.A2 ID THR, 3.ALC, 4.BASS, 5.TREBLE) of the SERVICE MENU as it requires no adjustment.

3. AUDIO

Setting Item	Variable range	fixed value
1. ERROR LIMIT(<i>Do not adjust</i>)	00H ~ FFH	10H
2. A2 ID THR(<i>Do not adjust</i>)	00H ~ FFH	19H
3. BASS (<i>Do not adjust</i>)	-17 ~ +17	+0
4. TREBLE (<i>Do not adjust</i>)	-17 ~ +17	+0



**AV28T25EKS / AV28T25EKB
AV28T55EKS / AV28T25EIS
STANDARD CIRCUIT DIAGRAM**

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the symbol and shading are critical for safety. For continued safety replace safety critical components only with manufacturer's recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- | | |
|---|--|
| (1) Input signal | : Colour bar signal |
| (2) Setting positions of each knob/button and variable resistor | : Original setting position when shipped |
| (3) Internal resistance of tester | : DC 20kΩ/V |
| (4) Oscilloscope sweeping time | : H \Rightarrow 20μS/div
: V \Rightarrow 5mS/div
: Others \Rightarrow Sweeping time is specified |
| (5) Voltage values | : All DC voltage values |

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3. INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board :R1209 → R209

4. INDICATIONS ON THE CIRCUIT DIAGRAM

- | | | |
|--|-----------------------------|--|
| (1) Resistors | | |
| ● Resistance value | | |
| No unit | : [Ω] | |
| K | : [KΩ] | |
| M | : [MΩ] | |
| ● Rated allowable power | | |
| No indication | : 1/16 [W] | |
| Others | : As specified | |
| ● Type | | |
| No indication | : Carbon resistor | |
| OMR | : Oxide metal film resistor | |
| MFR | : Metal film resistor | |
| MPR | : Metal plate resistor | |
| UNFR | : Uninflammable resistor | |
| FR | : Fusible resistor | |
| * Composition resistor 1/2 [W] is specified as 1/2S or Comp. | | |
| (2) Capacitors | | |
| ● Capacitance value | | |
| 1 or higher | : [pF] | |
| less than 1 | : [μF] | |
| ● Withstand voltage | | |
| No indication | : DC50[V] | |
| Others | : DC withstand voltage [V] | |
| AC indicated | : AC withstand voltage [V] | |
| * Electrolytic Capacitors | | |
| 47/50[Example]:Capacitance value [μF]/withstand voltage[V] | | |
| | \perp | LIVE side ground |
| | \downarrow | :ISOLATED(NEUTRAL) side ground |
| | \div | :EARTH ground |
| | ∇ | :DIGITAL ground |
| | | |
| | | 5. NOTE FOR REPAIRING SERVICE |
| | | This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\perp) side GND and the ISOLATED(NEUTRAL) : (\downarrow) side GND. Therefore, care must be taken for the following points. |
| | | (1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out. |
| | | (2) Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken. |
| | | ◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice. |
| | | NOTE |
| | | ◇ Due Improvement In performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.
When ordering parts, please use the numbers that appear in the Parts List. |

AV28T25EKS / AV28T25EKB
AV28T55EKS / AV28T25EIS

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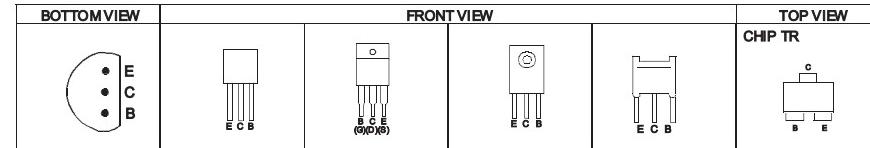
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CRT SOCKET PWB PATTERN

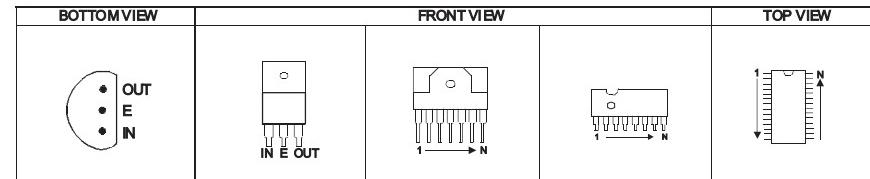
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SEMICONDUCTOR SHAPES

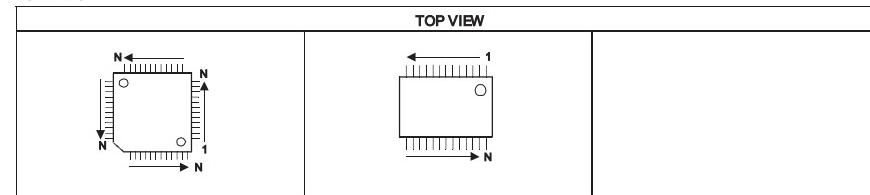
TRANSISTOR



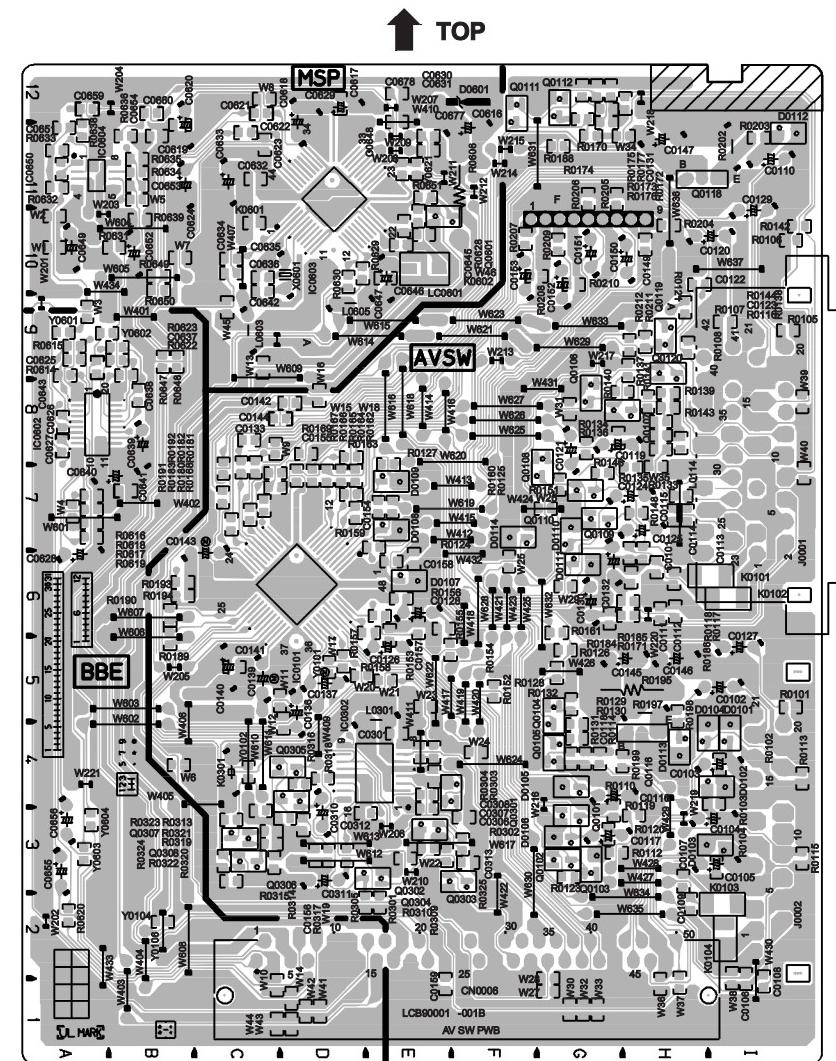
IC



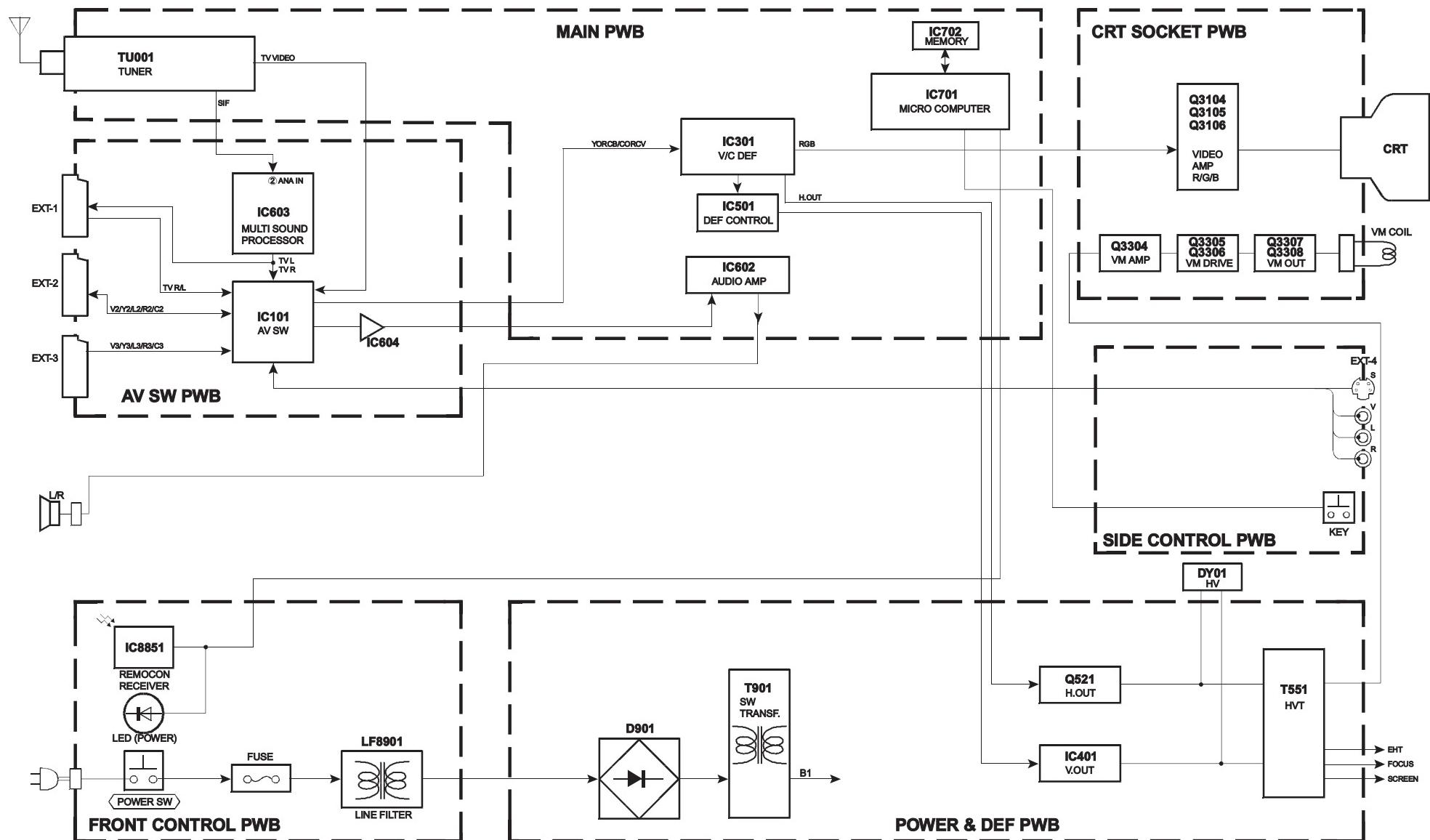
CHIP IC



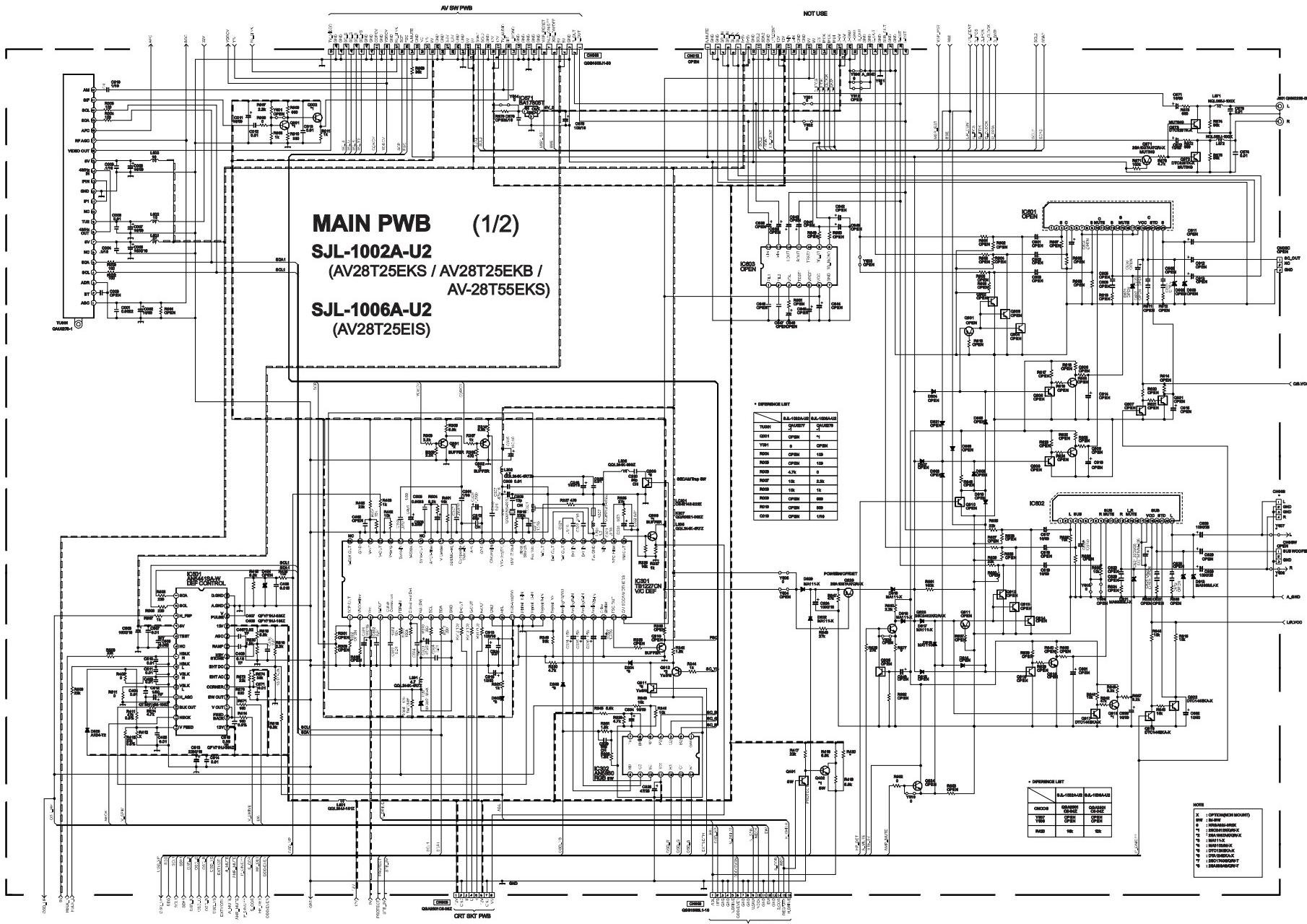
AV SW PWB PATTERN



BLOCK DIAGRAM

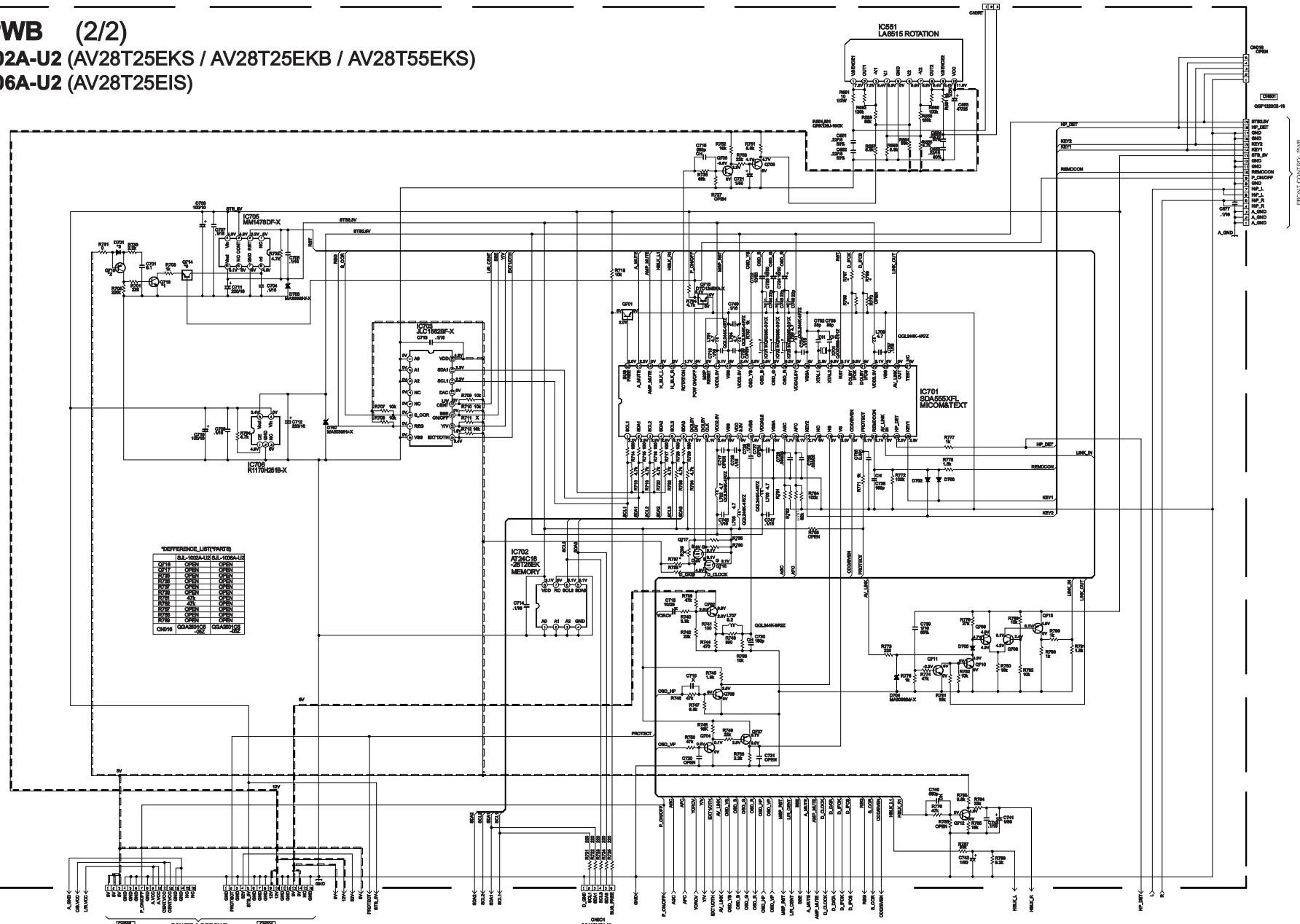


CIRCUIT DIAGRAMS MAIN PWB CIRCUIT DIAGRAMS [1/2]



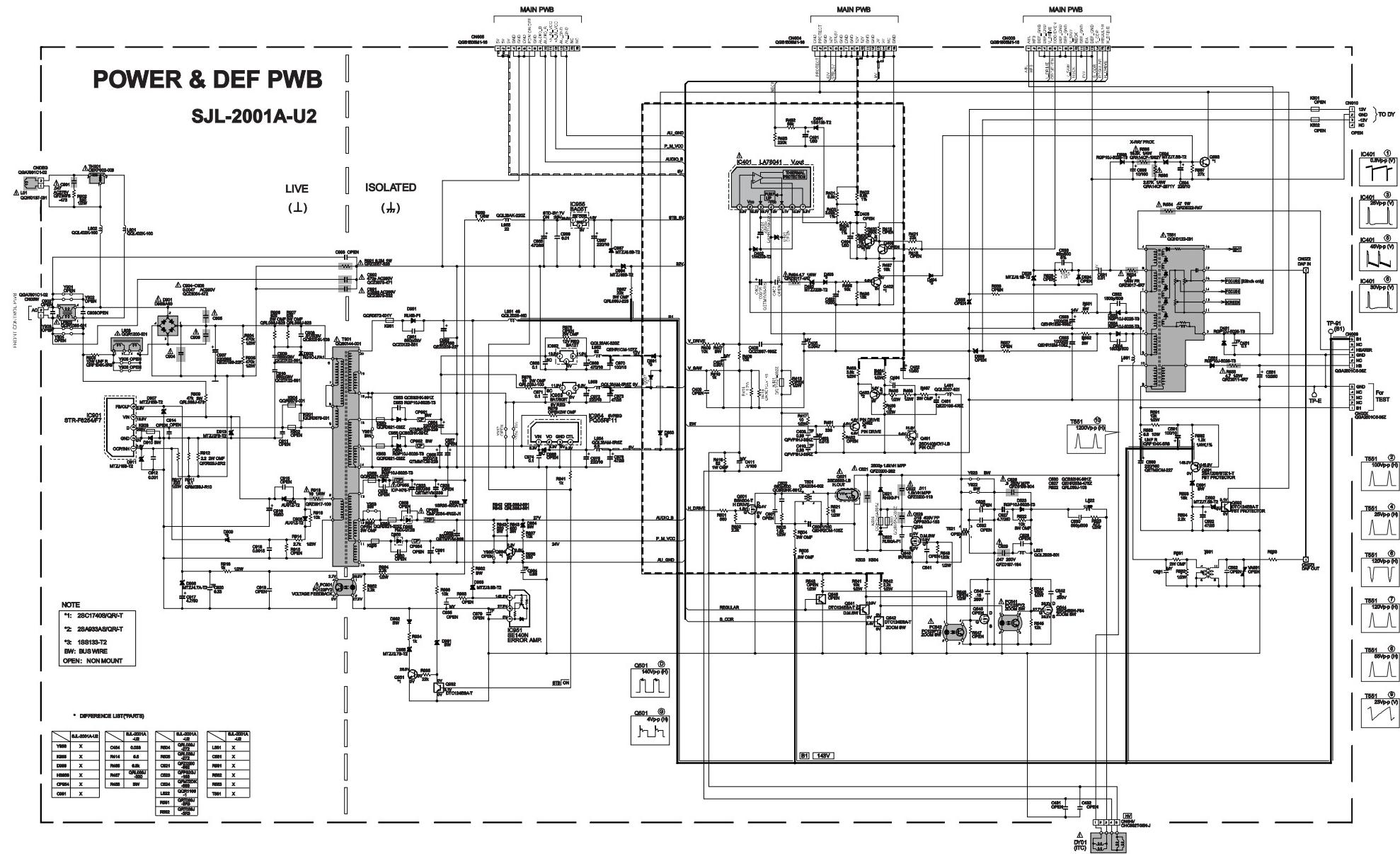
MAIN PWB (2/2)

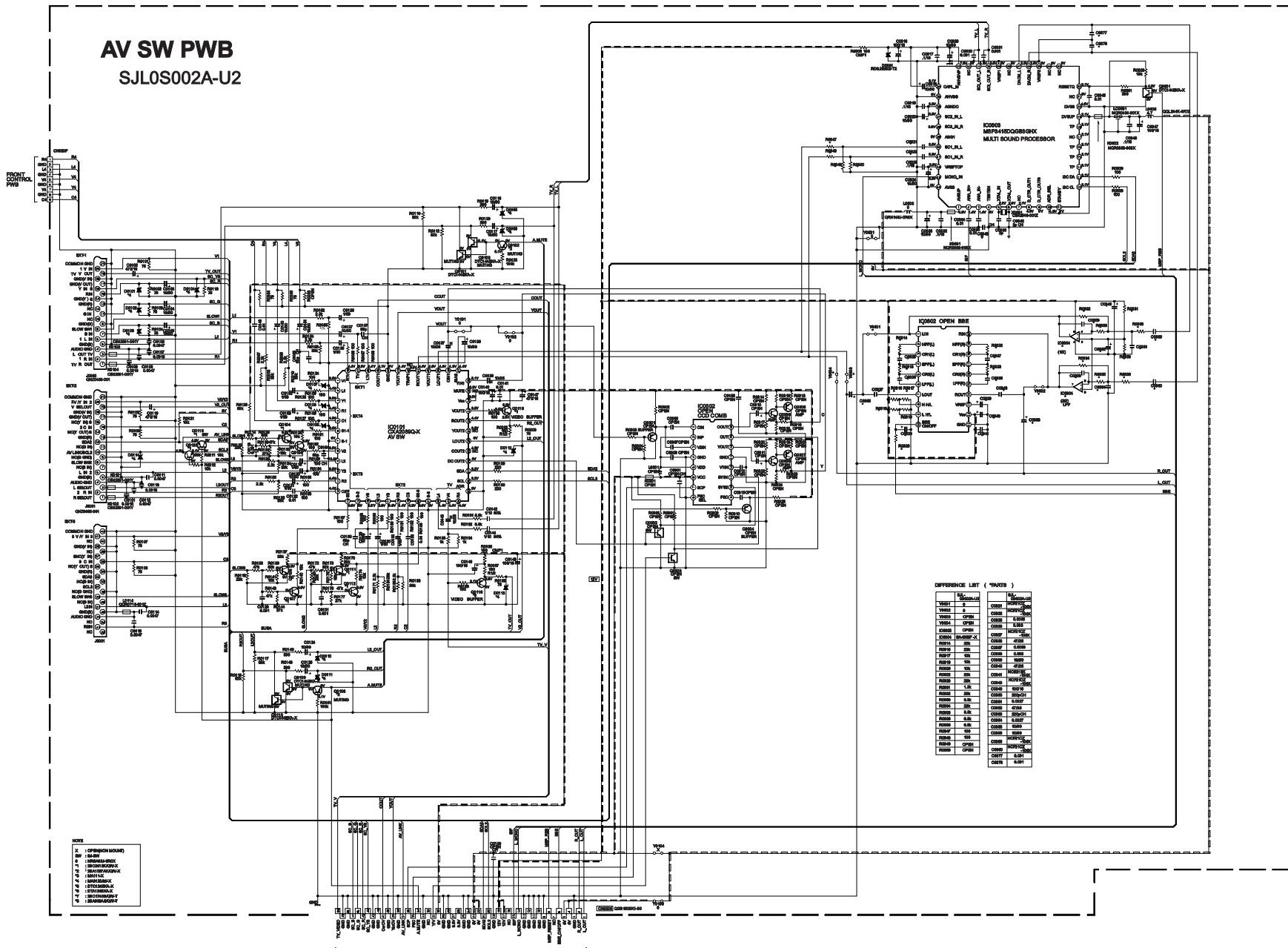
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SJL-1006A-U2 (AV28T25EIS)



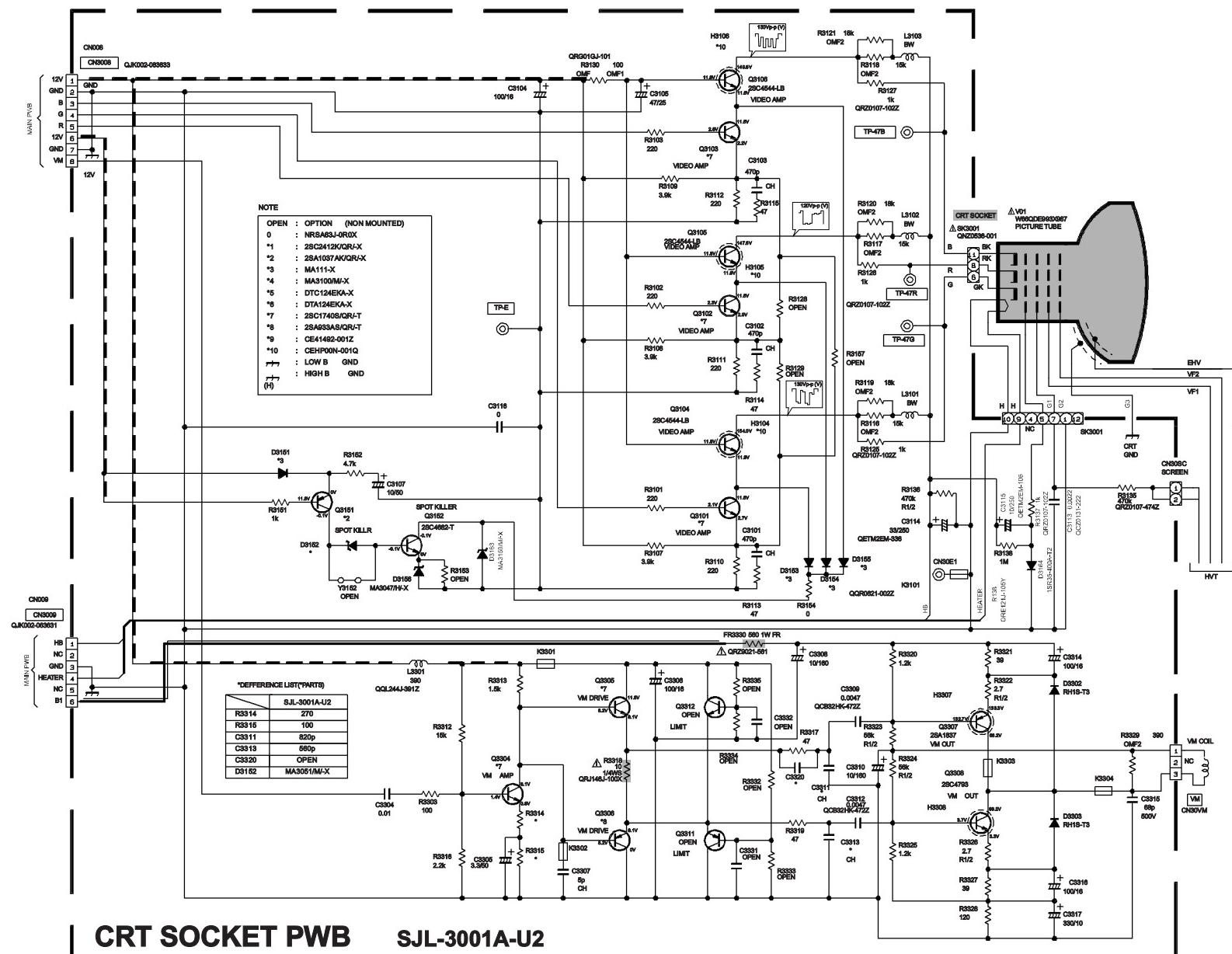
POWER & DEF PWB

SJL-2001A-U2



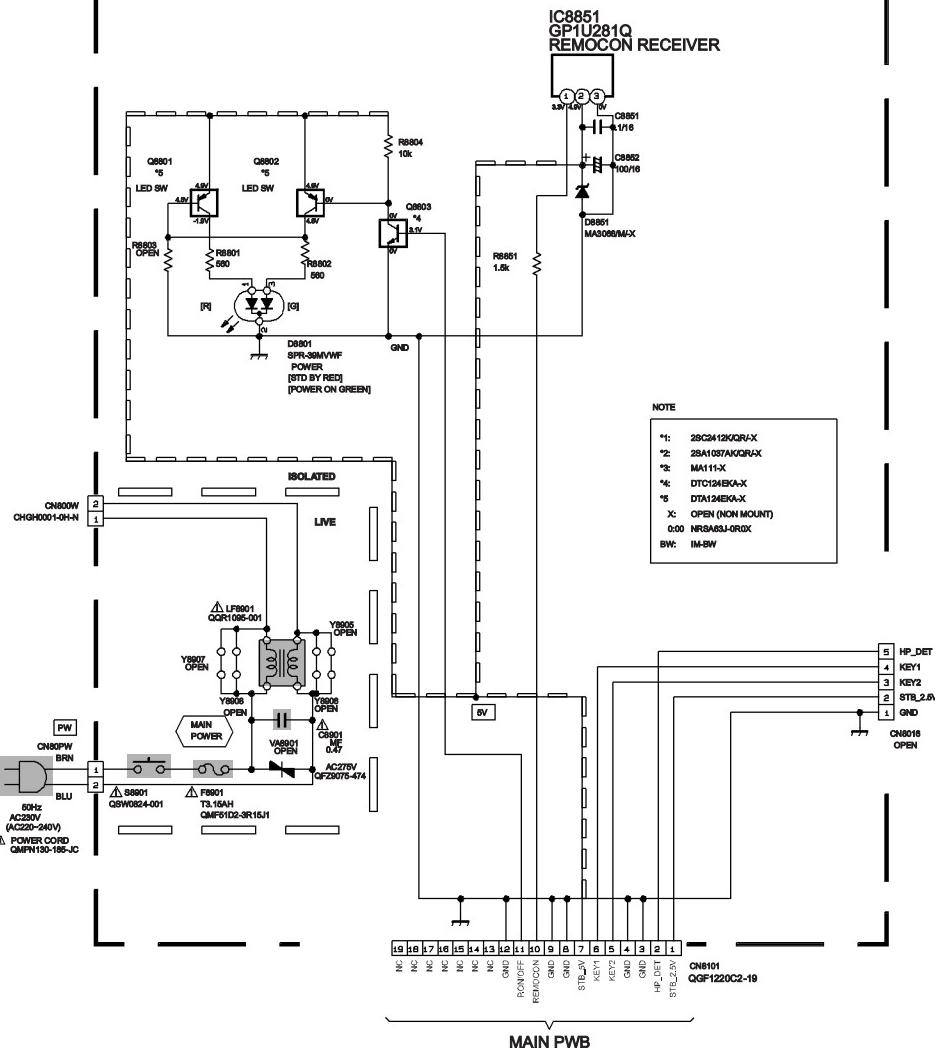


CRT SOCKET PWB CIRCUIT DIAGRAM



FRONT CONTROL PWB CIRCUIT DIAGRAM

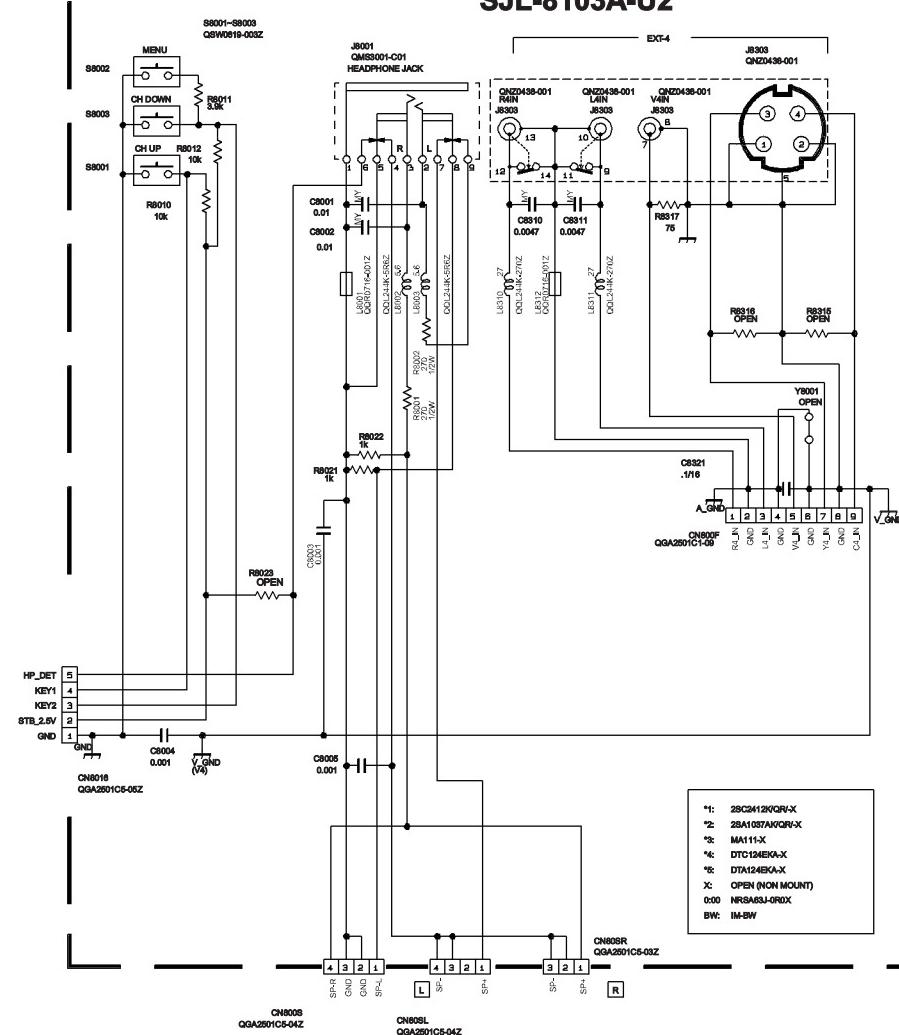
FRONT CONTROL PWB SJL-8003A-U2



AV28T25EKS / AV28T25EKB
AV28T55EKS / AV28T25EIS

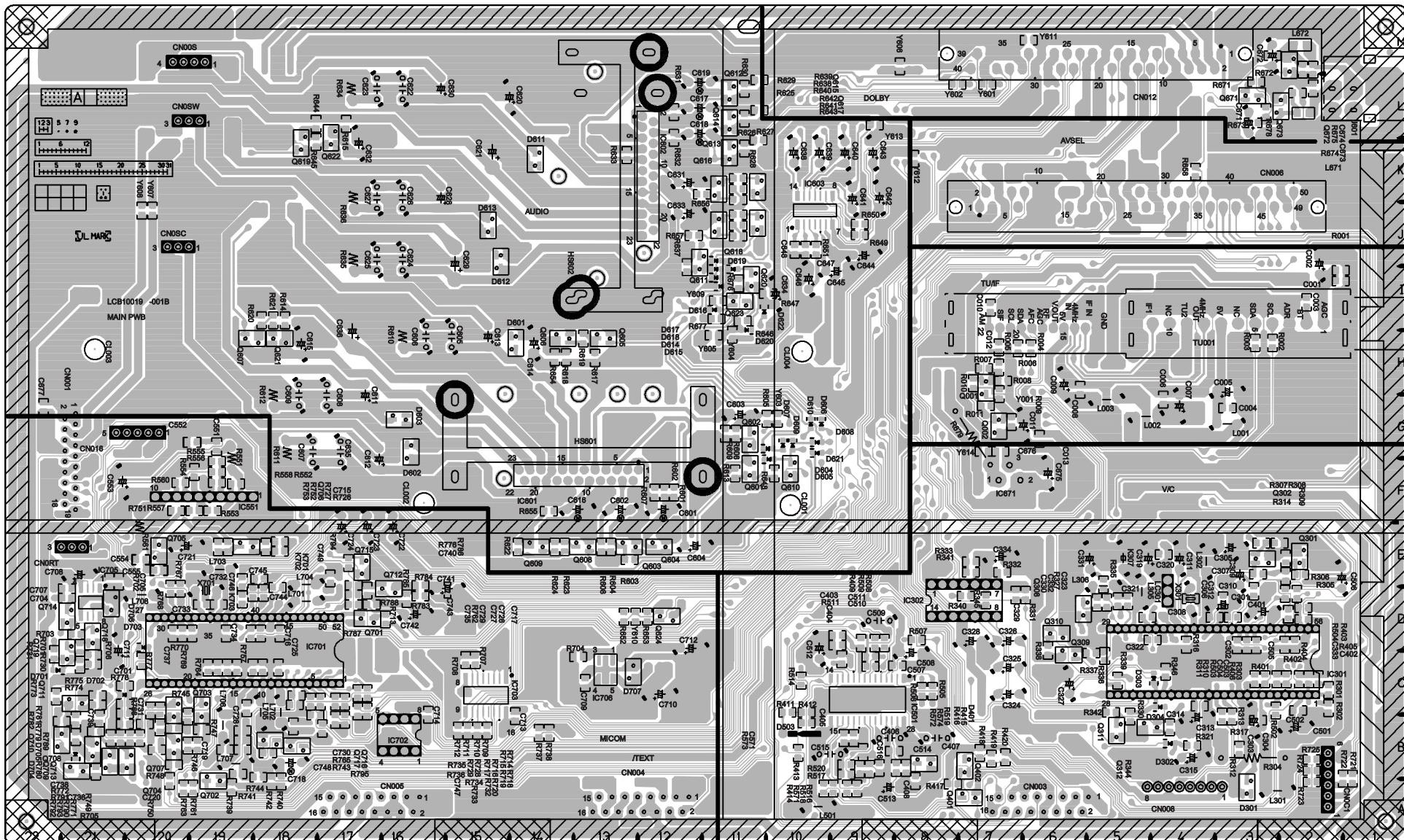
AV28T25EKS / AV28T25EKB
AV28T55EKS / AV28T25EIS
SIDE CONTROL PWB CIRCUIT DIAGRAM

SIDE CONTROL PWB SJL-8103A-U2



PATTERN DIAGRAMS MAIN PWB PATTERN

◀ FRONT

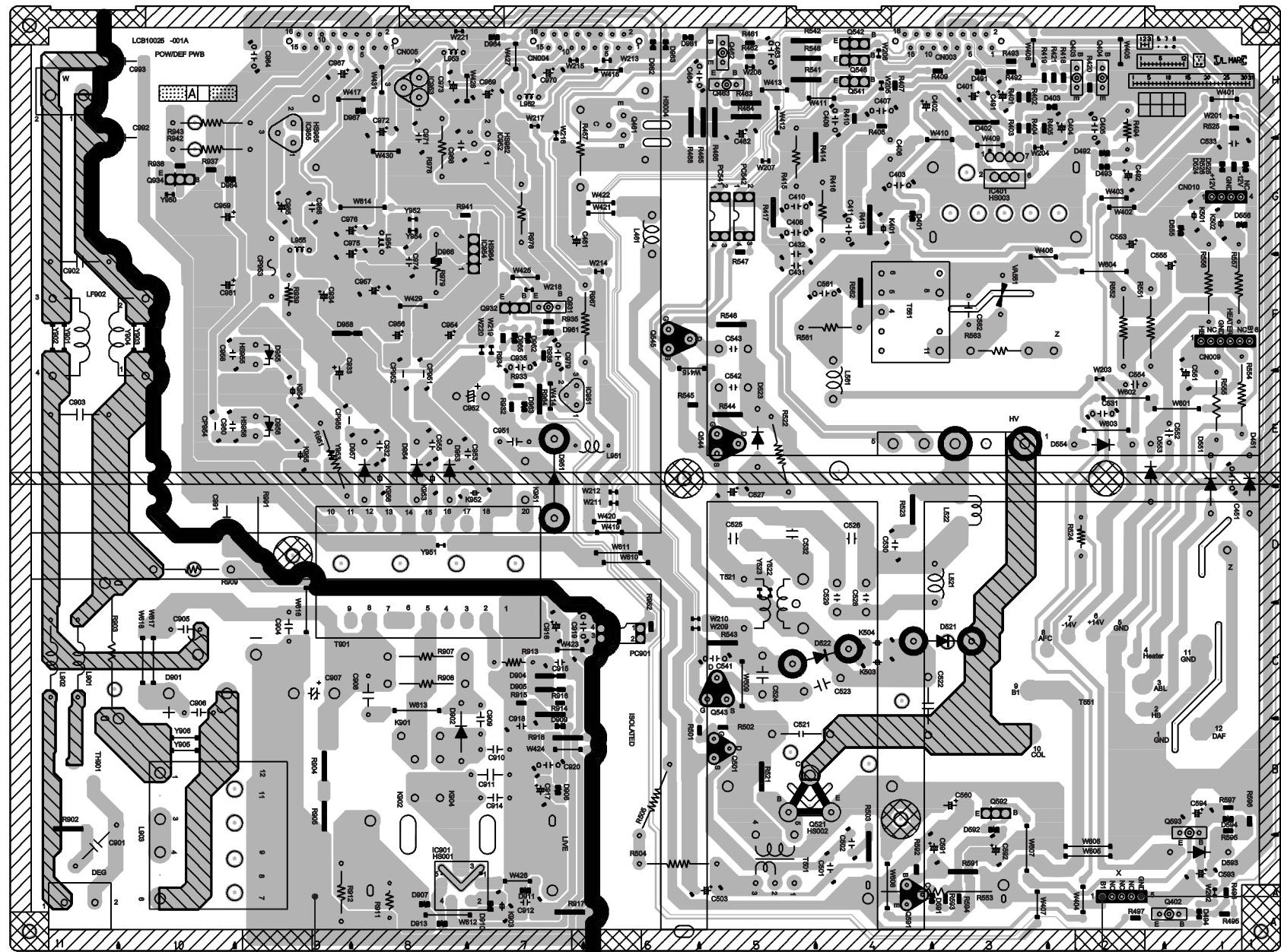


DEF POWER PWB PATTERN

AV28T25EKS / AV28T25EKB
AV28T55EKS / AV28T25EIS

AV28T25EKS / AV28T25EKB
AV28T55EKS / AV28T25EIS

FRONT



No.51942

2-19

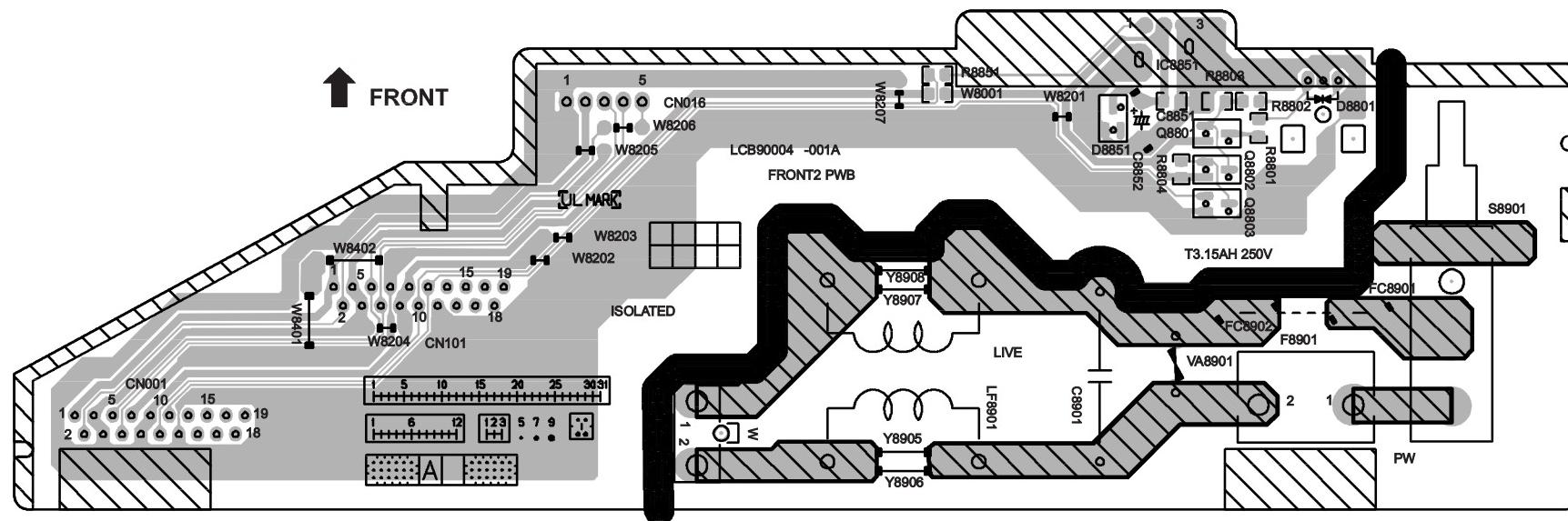
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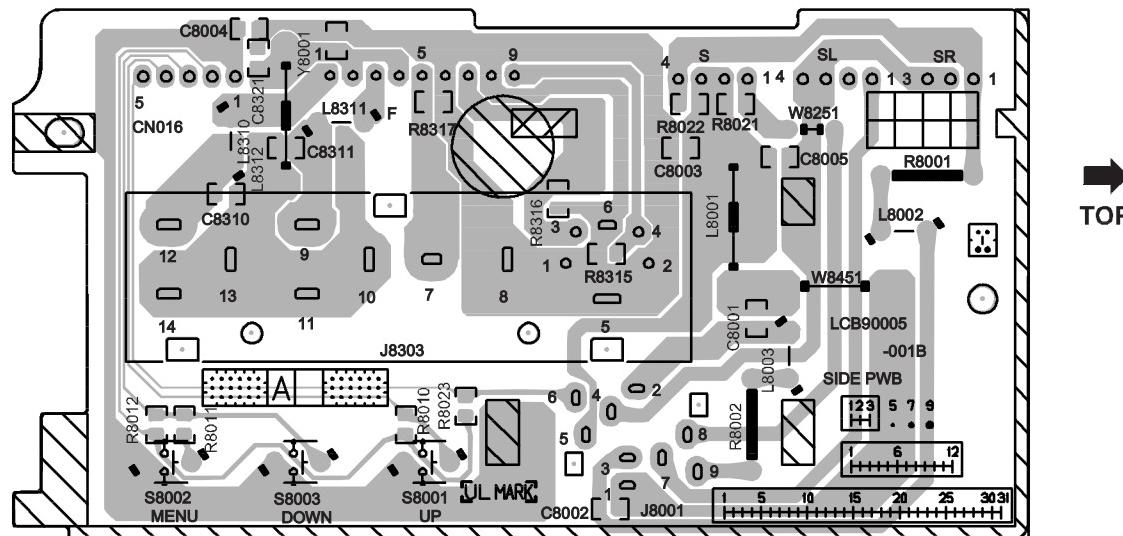
TP-91(B1)

TP-E
(77)

FRONT CONTROL PWB PATTERN



SIDE CONTROL PWB PATTERN



AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

PARTS LIST

CAUTION

- The parts identified by the  symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines — in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
H V R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
M F R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
M G R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
M P R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
O M R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
C M F R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
U N F R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
C H V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
C H M G R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
C O M P . R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
L P T C R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES

F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

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AV28T25EKS / AV28T25EKB / AV28T55EKS

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AV28T25EIS

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USING PW BOARD & REMOTE CONTROL UNIT

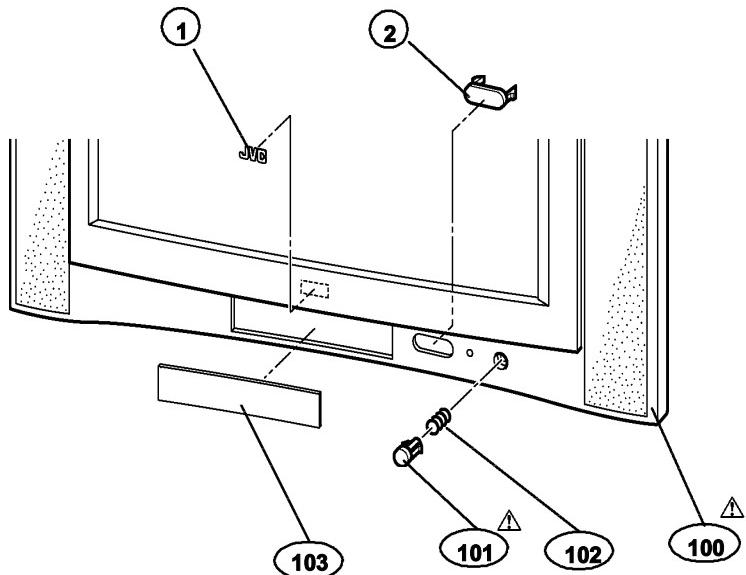
PWB ASS'Y \ Model	AV28T25EKS	AV28T25EKB	AV28T55EKS	AV28T25EIS
MAIN PWB	SJL-1002A-U2	←	←	SJL-1006A-U2
POWER & DEF. PWB	SJL-2001A-U2	←	←	←
CRT SOCKET PWB	SJL-3001A-U2	←	←	←
FRONT CONTROL PWB	SJL-8003A-U2	←	←	←
SIDE CONTROL PWB	SJL-8103A-U2	←	←	←
AV SW PWB	SJL0S002A-U2	←	←	←
REMOTE CONTROL UNIT	RM-C55H-1C	RM-C51-1C	RM-C55H-1C	RM-C55H-1C

AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

EXPLODED VIEW PARTS LIST (1)

Ref. No.	Part No.	Part Name	Description
AV28T25EKS / AV28T55EKS / AV28T25EIS			
1	LC41250-002C-U	JVC MARK	
2	LC31851-001B-U	WINDOW	
△ 100	LC11313-002B-U	F. CAB I ASSY	Inc. No. 101~103
△ 101	LC31201-003A-U	POWER KNOB	(SERVICE)
102	AEM3149-001-E	SPRING	
103	LC21065-001A-U	CENTER PANEL	
AV28T25EKB			
1	LC41250-003C-U	JVC MARK	
2	LC31851-001B-U	WINDOW	
△ 100	LC11313-005B-U	F. CAB I ASSY	Inc. No. 101~103
△ 101	LC31201-006A-U	POWER KNOB	(SERVICE)
102	AEM3149-001-E	SPRING	
103	LC21065-002A-U	CENTER PANEL	

EXPLODED VIEW (1)



AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

EXPLODED VIEW PARTS LIST (2)

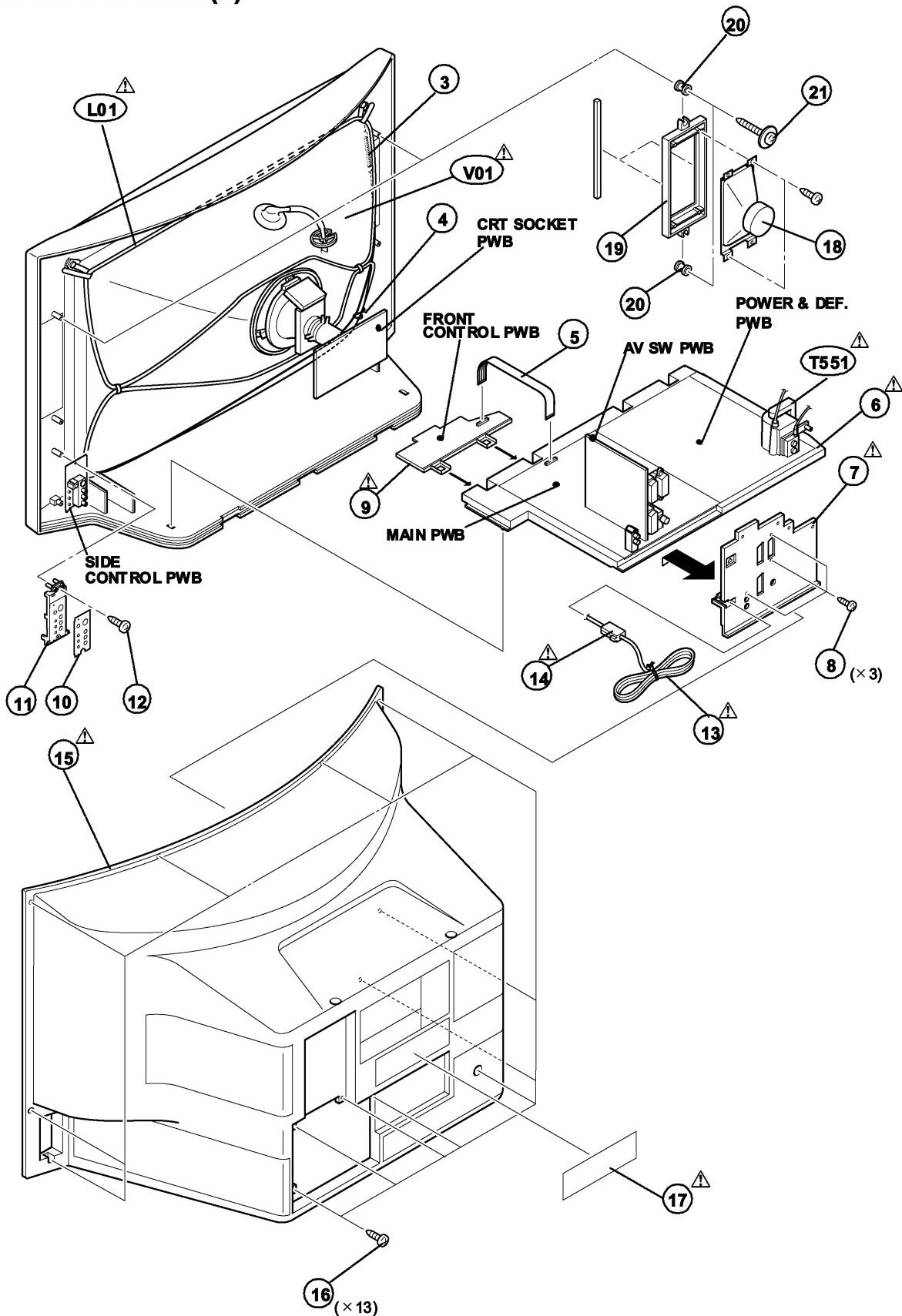
△ Ref.No.	Part No.	Part Name	Description
AV28T25EKS / AV28T55EKS / AV28T25EIS			
△ V01	W66QDE993X987	ITC	Inc. DY, PC MAGNET, WEDGE
△ L01	QQW0137-001	DEG COIL	
△ T551	QQH0122-001	FB TRANSF	
3	WJY0001-011A	E-BRA IDED ASSY	
4	WJY0013-002A	E-BRA IDED SUB ASSY	
5	CHFD119-12BD-N	FFC WIRE	CN-1
△ 6	LC10716-002F-U	CHASSIS BASE	
△ 7	LC11010-004A-U	AV BOARD	
8	QYSBSF3012M	TAP SCREW	(x3)
△ 9	LC11311-001B-U	CONTROL BASE	
10	LC31205-001B	CONTROL SHEET	
11	LC10856-001C-U	SIDE CONT BASE	
12	QYSBSAG4016N	TAP SCREW	
△ 13	QMPN130-185-JC	POWER CORD	CN-PW
△ 14	CM46818-A01-E	POWER CORD CLMP	
△ 15	LC11282-001C-U	REAR COVER	
16	QYSBSAG4016N	TAP SCREW	(x13)
△ 17	LC11364-003A-U	RATING LABEL	[AV28T25EKS]
△ 17	LC11364-012A-U	RATING LABEL	[AV28T55EKS]
△ 17	LC11364-016A-U	RATING LABEL	[AV28T25EIS]
18	QAS0109-001	SPEAKER	SP01-02 (x2)
19	LC11310-001A-U	SPEAKER ADAPTER	(x2)
20	LC40226-003A-H	SPACER	(x4)
21	LC40506-001A	TAP SCREW	(x4)

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△ V01	W66QDE993X987	ITC	Inc. DY, PC MAGNET, WEDGE
△ L01	QQW0137-001	DEG COIL	
△ T551	QQH0122-001	FB TRANSF	
3	WJY0001-011A	E-BRA IDED ASSY	
4	WJY0013-002A	E-BRA IDED SUB ASSY	
5	CHFD119-12BD-N	FFC WIRE	CN-1
△ 6	LC10716-002F-U	CHASSIS BASE	
△ 7	LC11010-005A-U	AV BOARD	
8	QYSBSF3012M	TAP SCREW	(x3)
△ 9	LC11311-001B-U	CONTROL BASE	
10	LC31205-001B	CONTROL SHEET	
11	LC10856-001C-U	SIDE CONT BASE	
12	QYSBSAG4016N	TAP SCREW	
△ 13	QMPN130-185-JC	POWER CORD	CN-PW
△ 14	CM46818-A01-E	POWER CORD CLMP	
△ 15	LC11282-002C-U	REAR COVER	
16	QYSBSAG4016N	TAP SCREW	(x13)
△ 17	LC11364-013A-U	RATING LABEL	
18	QAS0109-001	SPEAKER	SP01-02 (x2)
19	LC11310-001A-U	SPEAKER ADAPTER	(x2)
20	LC40226-003A-H	SPACER	(x4)
21	LC40506-001A	TAP SCREW	(x4)

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AV28T25EKB
AV28T55EKS
AV28T25EIS

EXPLODED VIEW (2)



AV28T25EKS
AV28T25EKB
AV28T55EKS

AV28T25EKS / AV28T25EKB / AV28T55EKS

PRINTED WIRING BOARD PARTS LIST

■ MAIN PW. BOARD ASS'Y (SJL-1002A-U2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R002	NRS463J-101X	MG R	100Ω 1/16W J
R003	NRS463J-101X	MG R	100Ω 1/16W J
R006	NRS463J-472X	MG R	4.7kΩ 1/16W J
R007	NRS463J-103X	MG R	10kΩ 1/16W J
R008	NRS463J-103X	MG R	10kΩ 1/16W J
R011	NRS463J-102X	MG R	1kΩ 1/16W J
R304	QRG01GJ-121	MG R	120Ω 1M J
R305	NRS463J-562X	MG R	5.6kΩ 1/16W J
R306	NRS463J-222X	MG R	2.2kΩ 1/16W J
R307	NRS463J-102X	MG R	1kΩ 1/16W J
R308	NRS463J-471X	MG R	470Ω 1/16W J
R309	NRS463J-222X	MG R	2.2kΩ 1/16W J
R310	NRS463J-391X	MG R	390Ω 1/16W J
R311	NRS463J-391X	MG R	390Ω 1/16W J
R312	NRS463J-101X	MG R	100Ω 1/16W J
R313	NRS463J-101X	MG R	100Ω 1/16W J
R314	NRS463J-562X	MG R	5.6kΩ 1/16W J
R316	NRS463J-224X	MG R	220kΩ 1/16W J
R317	NRS463J-101X	MG R	100Ω 1/16W J
R321	NRS463J-102X	MG R	1kΩ 1/16W J
R327	NRS463J-471X	MG R	470Ω 1/16W J
R330	NRS463J-472X	MG R	4.7kΩ 1/16W J
R331	NRS463J-152X	MG R	1.5kΩ 1/16W J
R332	NRS463J-332X	MG R	3.3kΩ 1/16W J
R333	NRS463J-472X	MG R	4.7kΩ 1/16W J
R335	NRS463J-273X	MG R	27kΩ 1/16W J
R336	NRS463J-103X	MG R	10kΩ 1/16W J
R337	NRS463J-102X	MG R	1kΩ 1/16W J
R340	NRS463J-103X	MG R	10kΩ 1/16W J
R341	NRS463J-103X	MG R	10kΩ 1/16W J
R342	NRS463J-152X	MG R	1.5kΩ 1/16W J
R344	NRS463J-102X	MG R	1kΩ 1/16W J
R345	NRS463J-562X	MG R	5.6kΩ 1/16W J
R346	NRS463J-333X	MG R	33kΩ 1/16W J
R401	NRS463J-103X	MG R	10kΩ 1/16W J
R402	NRS463J-103X	MG R	10kΩ 1/16W J
R403	NRS463J-102X	MG R	1kΩ 1/16W J
R404	NRS463J-183X	MG R	18kΩ 1/16W J
R405	NRS463J-223X	MG R	22kΩ 1/16W J
R409	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R411	NRS463D-473X	MG R	47kΩ 1/16W J
R413	NRS463D-223X	MG R	22kΩ 1/16W D
R414	NRS463D-101X	MG R	100Ω 1/16W D
R415	NRS463J-562X	MG R	5.6kΩ 1/16W J
R416	NRS463J-101X	MG R	100Ω 1/16W J
R417	NRS463J-223X	MG R	22kΩ 1/16W J
R418	NRS463J-682X	MG R	6.8kΩ 1/16W J
R419	NRS463J-562X	MG R	5.6kΩ 1/16W J
R420	NRS463J-183X	MG R	18kΩ 1/16W J
R502	NRS463J-103X	MG R	10kΩ 1/16W J
R503	NRS463J-104X	MG R	100kΩ 1/16W J
R504	NRS463J-822X	MG R	8.2kΩ 1/16W J
R505	NRS463J-221X	MG R	220Ω 1/16W J
R506	NRS463J-221X	MG R	220Ω 1/16W J
R507	NRS463J-102X	MG R	1kΩ 1/16W J
R508	NRS463J-223X	MG R	22kΩ 1/16W J
R509	NRS463J-223X	MG R	22kΩ 1/16W J
R511	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R514	NRS463J-472X	MG R	4.7kΩ 1/16W J
R516	NRS463J-222X	MG R	2.2kΩ 1/16W J
R517	NRS463J-472X	MG R	4.7kΩ 1/16W J
R518	NRS463J-682X	MG R	6.8kΩ 1/16W J
R519	NRS463J-562X	MG R	5.6kΩ 1/16W J
R520	NRS463J-152X	MG R	1.5kΩ 1/16W J
R551	QRK1261-100X	C R	10Ω 1/2W J
R552	NRS463J-124X	MG R	120kΩ 1/16W J
R553	NRS463J-683X	MG R	68kΩ 1/16W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R554	NRS463J-333X	MG R	33kΩ 1/16W J
R555	NRS463J-472X	MG R	4.7kΩ 1/16W J
R556	NRS463J-154X	MG R	150kΩ 1/16W J
R557	NRS463J-562X	MG R	5.6kΩ 1/16W J
R558	NRS463J-562X	MG R	5.6kΩ 1/16W J
R560	NRS463J-104X	MG R	100kΩ 1/16W J
R561	QRE121J-100Y	C R	10Ω 1/2W J
R571	NRS463J-101X	MG R	100Ω 1/16W J
R572	NRS463J-223X	MG R	22kΩ 1/16W J
R573	NRS463J-821X	MG R	82Ω 1/16W J
R574	NRS463J-333X	MG R	33kΩ 1/16W J
R625	NRS463J-682X	MG R	6.8kΩ 1/16W J
R626	NRS463J-104X	MG R	100kΩ 1/16W J
R629	NRS463J-682X	MG R	6.8kΩ 1/16W J
R630	NRS463J-104X	MG R	100kΩ 1/16W J
R631	NRS463J-103X	MG R	10kΩ 1/16W J
R633	NRS463J-103X	MG R	10kΩ 1/16W J
R637	NRS463J-104X	MG R	100kΩ 1/16W J
R641	NRS463J-103X	MG R	10kΩ 1/16W J
R642	NRS463J-473X	MG R	47kΩ 1/16W J
R643	NRS463J-822X	MG R	8.2kΩ 1/16W J
R644	NRS463J-153X	MG R	15kΩ 1/16W J
R645	NRS463J-222X	MG R	2.2kΩ 1/16W J
R646	NRS463J-273X	MG R	27kΩ 1/16W J
R647	NRS463J-473X	MG R	47kΩ 1/16W J
R649	NRS463J-101X	MG R	100Ω 1/16W J
R650	NRS463J-101X	MG R	100Ω 1/16W J
R651	NRS463J-123X	MG R	12kΩ 1/16W J
R671	NRS463J-104X	MG R	100kΩ 1/16W J
R672	NRS463J-681X	MG R	68Ω 1/16W J
R673	NRS463J-681X	MG R	68Ω 1/16W J
R674	NRS463J-103X	MG R	10kΩ 1/16W J
R675	NRS463J-103X	MG R	10kΩ 1/16W J
R702	NRS463J-472X	MG R	4.7kΩ 1/16W J
R704	NRS463J-472X	MG R	4.7kΩ 1/16W J
R705	NRS463J-103X	MG R	10kΩ 1/16W J
R707	NRS463J-103X	MG R	10kΩ 1/16W J
R708	NRS463J-103X	MG R	10kΩ 1/16W J
R709	NRS463J-103X	MG R	10kΩ 1/16W J
R710	NRS463J-101X	MG R	10kΩ 1/16W J
R712	NRS463J-103X	MG R	10kΩ 1/16W J
R713	NRS463J-103X	MG R	10kΩ 1/16W J
R714	NRS463J-101X	MG R	100Ω 1/16W J
R715	NRS463J-101X	MG R	100Ω 1/16W J
R716	NRS463J-101X	MG R	100Ω 1/16W J
R717	NRS463J-101X	MG R	100Ω 1/16W J
R718	NRS463J-472X	MG R	4.7kΩ 1/16W J
R719	NRS463J-472X	MG R	4.7kΩ 1/16W J
R720	NRS463J-472X	MG R	4.7kΩ 1/16W J
R721	NRS463J-221X	MG R	22Ω 1/16W J
R722	NRS463J-221X	MG R	22Ω 1/16W J
R723	NRS463J-221X	MG R	22Ω 1/16W J
R724	NRS463J-221X	MG R	22Ω 1/16W J
R725	NRS463J-221X	MG R	22Ω 1/16W J
R726	NRS463J-683X	MG R	68kΩ 1/16W J
R728	NRS463J-101X	MG R	100Ω 1/16W J
R729	NRS463J-101X	MG R	100Ω 1/16W J
R730	NRS463J-183X	MG R	18Ω 1/16W J
R731	NRS463J-183X	MG R	18Ω 1/16W J
R732	NRS463J-472X	MG R	4.7kΩ 1/16W J
R733	NRS463J-472X	MG R	4.7kΩ 1/16W J
R734	NRS463J-472X	MG R	4.7kΩ 1/16W J
R735	NRS463J-223X	MG R	22Ω 1/16W J
R736	NRS463J-223X	MG R	22Ω 1/16W J
R737	NRS463J-103X	MG R	10kΩ 1/16W J
R738	NRS463J-103X	MG R	10kΩ 1/16W J
R739	NRS463J-473X	MG R	47kΩ 1/16W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R740	NRS463J-332X	MG R	3.3kΩ 1/16W J
R741	NRS463J-101X	MG R	100Ω 1/16W J
R742	NRS463J-223X	MG R	22kΩ 1/16W J
R743	NRS463J-391X	MG R	390Ω 1/16W J
R744	NRS463J-471X	MG R	470Ω 1/16W J
R745	NRS463J-182X	MG R	1.8kΩ 1/16W J
R746	NRS463J-473X	MG R	47kΩ 1/16W J
R747	NRS463J-682X	MG R	6.8kΩ 1/16W J
R748	NRS463J-153X	MG R	15kΩ 1/16W J
R749	NRS463J-223X	MG R	22kΩ 1/16W J
R750	NRS463J-473X	MG R	47kΩ 1/16W J
R751	NRS463J-562X	MG R	5.6kΩ 1/16W J
R752	NRS463J-103X	MG R	10kΩ 1/16W J
R753	NRS463J-223X	MG R	22kΩ 1/16W J
R757	NRS463J-102X	MG R	1kΩ 1/16W J
R758	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R759	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R760	NRSA463J-0R0X	MG R	0.0Ω 1/16W J
R761	NRS463J-473X	MG R	47kΩ 1/16W J
R762	NRS463J-473X	MG R	47kΩ 1/16W J
R763	NRS463J-823X	MG R	82kΩ 1/16W J
R764	NRS463J-104X	MG R	100Ω 1/16W J
R765	NRS463J-103X	MG R	10kΩ 1/16W J
R766	NRS463J-222X	MG R	2.2kΩ 1/16W J
R767	NRS463J-103X	MG R	10kΩ 1/16W J
R768	NRS463J-103X	MG R	10kΩ 1/16W J
R769	NRS463J-183X	MG R	18kΩ 1/16W J
R770	NRS463J-183X	MG R	18kΩ 1/16W J
R771	NRS463J-102X	MG R	1kΩ 1/16W J
R772	NRS463J-104X	MG R	100Ω 1/16W J
R773	NRS463J-221X	MG R	220Ω 1/16W J
R774	NRS463J-473X	MG R	47kΩ 1/16W J
R775	NRS463J-102X	MG R	1kΩ 1/16W J
R776	NRS463J-473X	MG R	47kΩ 1/16W J
R777	NRS463J-102X	MG R	1kΩ 1/16W J
R778	NRS463J-152X	MG R	1.5kΩ 1/16W J
R779	NRS463J-273X	MG R	27kΩ 1/16W J
R780	NRS463J-103X	MG R	10kΩ 1/16W J
R781	NRS463J-103X	MG R	10kΩ 1/16W J
R782	NRS463J-103X	MG R	10kΩ 1/16W J
R783	NRS463J-103X	MG R	10kΩ 1/16W J
R784	NRS463J-333X	MG R	33kΩ 1/16W J
R785	NRS463J-184X	MG R	180Ω 1/16W J
R787	NRS463J-333X	MG R	33kΩ 1/16W J
R788	NRS463J-332X	MG R	3.3kΩ 1/16W J
R789	NRS463J-103X	MG R	10kΩ 1/16W J
R790	NRS463J-102X	MG R	1kΩ 1/16W J
R791	NRS463J-152X	MG R	1.5kΩ 1/16W J
R792	NRS463J-103X	MG R	10kΩ 1/16W J
R793	NRS463J-102X	MG R	1kΩ 1/16W J

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C311	QETNLHM-106Z	E CAP.	10μF 50V M
C312	NDC31HJ-680X	C CAP.	68pF 50V J
C313	QETNLCH-107Z	E CAP.	100pF 16V M
C314	NCB31HK-103X	C CAP.	0.01μF 50V K
C315	QETNLHH-106Z	E CAP.	10μF 50V M
C319	QETNLHM-107Z	E CAP.	100pF 16V M
C320	NCB31HK-103X	C CAP.	0.01μF 50V K
C321	NCB31CK-104X	C CAP.	0.1μF 16V K
C322	NCB31CK-104X	C CAP.	0.1μF 16V K
C323	NCB31CK-104X	C CAP.	0.1μF 16V K
C324	QETNLHM-105Z	E CAP.	1.0μF 50V M
C325	QETNLHM-105Z	E CAP.	1.0μF 50V M
C326	QETNLHM-105Z	E CAP.	1.0μF 50V M
C327	QETNLHM-475Z	E CAP.	4.7μF 50V M
C328	QETNLHM-476Z	E CAP.	47μF 25V M
C329	NDC31HJ-390X	C CAP.	39pF 50V J
C330	NDC31HJ-390X	C CAP.	39pF 50V J
C331	QETNLHM-105Z	E CAP.	1.0μF 50V M
C332	NCB31HK-103X	C CAP.	0.01μF 50V K
C333	NCB31EK-104X	C CAP.	0.1μF 25V K
C334	QETNLHM-106Z	E CAP.	10μF 50V M
C401	QETNLHM-105Z	E CAP.	1.0μF 50V M
C403	NCB31HK-103X	C CAP.	0.01μF 50V K
C404	NCB31HK-103X	C CAP.	0.01μF 50V K
C405	NCB31HK-103X	C CAP.	0.01μF 50V K
C406	QFVF1HJ-184Z	MF CAP.	0.18μF 50V J
C407	QFVF1HJ-824Z	MF CAP.	0.82μF 50V J
C408	NCB31HK-153X	C CAP.	0.015μF 50V K
C501	QETNLCH-107Z	E CAP.	100pF 16V M
C502	NCB31HK-108X	C CAP.	0.01μF 50V K
C503	NCB31HK-103X	C CAP.	0.01μF 50V K
C504	NCB31HK-103X	C CAP.	0.01μF 50V K
C505	NCB31HK-332X	C CAP.	330pF 50V K
C506	QETNLHM-335Z	E CAP.	3.3μF 50V M
C507	NCB31HK-103X	C CAP.	0.01μF 50V K
C508	QETNLCH-108Z	E CAP.	1000pF 16V M
C509	QFLCLHJ-823Z	M CAP.	0.082μF 50V J
C510	NCB31HK-103X	C CAP.	0.01μF 50V K
C511	NCB31HK-103X	C CAP.	0.01μF 50V K
C512	QETNLHM-105Z	E CAP.	1.0μF 50V M
C513	QETNLCH-228Z	E CAP.	2200pF 16V M
C514	NCB31HK-103X	C CAP.	0.01μF 50V K
C515	QFVF1HJ-394Z	MF CAP.	0.39μF 50V J
C516	NCB31HK-103X	C CAP.	0.01μF 50V K
C551	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C552	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C553	QETNLEM-476Z	E CAP.	47μF 25V M
C554	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C555	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C571	NCB31HK-103X	C CAP.	0.01μF 50V K
C617	QETNLHM-106Z	E CAP.	10μF 50V M
C619	QETNLHM-106Z	E CAP.	10μF 50V M
C620	QETNLHM-107Z	E CAP.	100μF 50V M
C621	QETNLHM-228	E CAP.	2200pF 35V M
C628	QETNLHM-108Z	E CAP.	1000pF 25V M
C630	QETNLHM-108Z	E CAP.	1000pF 25V M
C632	QETNLHM-106Z	E CAP.	10μF 50V M
C633	QETNLHM-106Z	E CAP.	10μF 50V M
C634	QETNLCH-227Z	E CAP.	220pF 16V M
C637	QETNLCH-227Z	E CAP.	220pF 16V M
C638	QETNLHM-106Z	E CAP.	10μF 50V M
C639	QETNLHM-106Z	E CAP.	10μF 50V M
C640	QETNLHM-106Z	E CAP.	10μF 50V M
C641	QETNLHM-106Z	E CAP.	10μF 50V M
C642	QETNLHM-106Z	E CAP.	10μF 50V M
C643	QETNLHM-106Z	E CAP.	10μF 50V M
C644	QETNLCH-107Z	E CAP.	100μF 16V M
C645	QETNLHM-105Z	E CAP.	1.0μF 50V M
C646	QETNLHM-106Z	E CAP.	10μF 50V M
C647	NCB31HK-272X	C CAP.	2700pF 50V K
C648	NCB31HK-472X	C CAP.	4700pF 50V K
C671	QETNLHM-106Z	E CAP.	10μF 50V M
C672	QETNLHM-106Z	E CAP.	10μF 50V M
C673	NCB31HK-222X	C CAP.	2200pF 50V K

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Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C674	NCB31HK-222X	C CAP.	2200pF 50V K
C675	QETM1CM-107Z	E CAP.	100pF 16V M
C676	NCB31CK-104X	C CAP.	0.1uF 16V K
C677	NCB31CK-104X	C CAP.	0.1uF 16V K
C702	NCB31HK-103X	C CAP.	0.01uF 50V K
C703	QETN1VM-477Z	E CAP.	470pF 35V M
C704	NCB31CK-104X	C CAP.	0.1uF 16V K
C705	NCB31CK-104X	C CAP.	0.1uF 16V K
C706	QETN1AM-227Z	E CAP.	220pF 10V M
C707	NCB31CK-104X	C CAP.	0.1uF 16V K
C708	QETN1AM-107Z	E CAP.	100pF 10V M
C709	NCB31CK-104X	C CAP.	0.1uF 16V K
C710	QETN1AM-107Z	E CAP.	100pF 10V M
C711	QETN1AM-227Z	E CAP.	220pF 10V M
C712	QETN1AM-227Z	E CAP.	220pF 10V M
C713	NCB31CK-104X	C CAP.	0.1uF 16V K
C714	NCB31CK-104X	C CAP.	0.1uF 16V K
C715	NDC31HJ-561X	C CAP.	560pF 50V J
C716	NCB31CK-104X	C CAP.	0.1uF 16V K
C717	NCB31CK-104X	C CAP.	0.1uF 16V K
C718	QENC1EM-106Z	BP E CAP.	10pF 25V M
C721	QETNMHM-105Z	E CAP.	1.0pF 50V M
C722	QETNMHM-106Z	E CAP.	1.0pF 50V M
C723	QETNMHM-106Z	E CAP.	1.0pF 50V M
C724	QETNMHM-106Z	E CAP.	1.0pF 50V M
C725	NCB31CK-104X	C CAP.	0.1uF 16V K
C726	NCB31CK-104X	C CAP.	0.1uF 16V K
C727	NCB31CK-104X	C CAP.	0.1uF 16V K
C728	NCB31CK-104X	C CAP.	0.1uF 16V K
C729	NCB31EK-333X	C CAP.	0.033uF 25V K
C730	NDC31HJ-151X	C CAP.	150pF 50V J
C732	NDC31HJ-330X	C CAP.	33pF 50V J
C733	NDC31HJ-390X	C CAP.	39pF 50V J
C734	NCB31CK-104X	C CAP.	0.1uF 16V K
C735	NCB31EK-333X	C CAP.	0.033uF 25V K
C736	NCB31HK-102X	C CAP.	1000pF 50V K
C737	NCB31CK-104X	C CAP.	0.1uF 16V K
C738	NDC31HJ-151X	C CAP.	150pF 50V J
C739	NCF31A1Z-105X	C CAP.	1uF 10V Z
C740	NDC31HJ-561X	C CAP.	560pF 50V J
C741	QETNMHM-105Z	E CAP.	1.0pF 50V M
C742	QETNMHM-105Z	E CAP.	1.0pF 50V M
COIL			
L001	QQL244K-270Z	INDUCTOR	
L002	QQL244K-100Z	COIL	10uH K
L003	QQL244K-100Z	COIL	10uH K
L301	QQL244K-4R7Z	COIL	4.7uH K
L302	QQL244K-4R7Z	COIL	4.7uH K
L305	QQL244K-4R7Z	COIL	4.7uH K
L306	QQL244K-330Z	COIL	33uH K
L501	QQL244J-151Z	INDUCTOR	
L671	NQL085J-100X	INDUCTOR	
L672	NQL085J-100X	INDUCTOR	
L701	QQL244K-4R7Z	COIL	4.7uH K
L702	QQL244K-4R7Z	COIL	4.7uH K
L703	QQL244K-4R7Z	COIL	4.7uH K
L704	QQL244K-4R7Z	COIL	4.7uH K
L705	QQL244K-4R7Z	COIL	4.7uH K
L706	QQL244K-4R7Z	COIL	4.7uH K
L707	QQL244K-882Z	COIL	8.2uH K
L708	QQL244K-4R7Z	COIL	4.7uH K
DIODE			
D301	MA3051/M/-X	Z DIODE	
D302	MA111-X	SI DIODE	
D303	MA111-X	SI DIODE	
D304	MA111-X	SI DIODE	
D503	AK04-T2	SB DIODE	
D611	MA3380/L/-X	Z DIODE	
D613	MA3380/L/-X	Z DIODE	
D616	MA111-X	SI DIODE	
D617	MA111-X	SI DIODE	

Symbol No.	Part No.	Part Name	Description
DIODE			
D618	MA111-X	SI DIODE	
D619	MA111-X	SI DIODE	
D620	MA111-X	SI DIODE	
D621	MA111-X	SI DIODE	
D702	MA111-X	SI DIODE	
D703	MA111-X	SI DIODE	
D704	MA3058/M/-X	Z DIODE	
D705	MA111-X	SI DIODE	
TRANSISTOR			
Q002	2SC2412K/QR/-X	TRANSISTOR	
Q301	2SA1037AK/QR/-X	TRANSISTOR	
Q302	2SA1037AK/QR/-X	TRANSISTOR	
Q308	DTC124EKA-X	DIGI TRANSISTOR	
Q309	2SC2412K/QR/-X	TRANSISTOR	
Q311	DTC124EKA-X	DIGI TRANSISTOR	
Q312	2SA1037AK/QR/-X	TRANSISTOR	
Q401	DTC124EKA-X	DIGI TRANSISTOR	
Q402	2SC2412K/QR/-X	TRANSISTOR	
Q611	2SA1037AK/QR/-X	TRANSISTOR	
Q612	DTC124EKA-X	DIGI TRANSISTOR	
Q614	DTC124EKA-X	DIGI TRANSISTOR	
Q617	DTC144EKA-X	DIGI TRANSISTOR	
Q618	2SC2412K/QR/-X	TRANSISTOR	
Q619	DTC144EKA-X	DIGI TRANSISTOR	
Q620	2SA1037AK/QR/-X	TRANSISTOR	
Q671	2SA1037AK/QR/-X	TRANSISTOR	
Q672	DTC323TK-X	DIGI TRANSISTOR	
Q673	DTC323TK-X	DIGI TRANSISTOR	
Q701	DTC124EKA-X	DIGI TRANSISTOR	
Q702	2SC2412K/QR/-X	TRANSISTOR	
Q703	2SC2412K/QR/-X	TRANSISTOR	
Q704	2SC2412K/QR/-X	TRANSISTOR	
Q705	2SA1037AK/QR/-X	TRANSISTOR	
Q706	2SC2412K/QR/-X	TRANSISTOR	
Q707	2SA1037AK/QR/-X	TRANSISTOR	
Q708	2SC2412K/QR/-X	TRANSISTOR	
Q709	2SC2412K/QR/-X	TRANSISTOR	
Q710	2SC2412K/QR/-X	TRANSISTOR	
Q711	2SC2412K/QR/-X	TRANSISTOR	
Q712	2SC2412K/QR/-X	TRANSISTOR	
Q713	2SA1037AK/QR/-X	TRANSISTOR	
IC			
IC301	TB1227CN	IC	
IC302	AN5860	IC	
IC501	AN5441SA-W	IC	
IC551	LA6515	IC	
IC602	AN5277	IC	
IC608	NJM2701-X	IC	
IC671	BA05T	IC	
IC701	SDA355XF	IC(MICRO C ROM)	
IC702	AT24C16-28T25EK	IC	(SERVICE)
IC708	JLC1562BF-X	IC	
IC704	BA17805T	IC	
IC705	MH1478DF-X	IC	
IC706	R1170H251B-X	IC	
OTHERS			
CN001	QGF1220C2-19	FFC/FPC CONNE	
CN008 -5	QGB150611-16	B TO B CONNE	
CN006	QGB150511-50	B TO B CONNE	
CN008	QGA2501C5-08Z	W TO B CONNE	
CN016	QGA2501C5-05Z	W TO B CONNE	
K307	QRO821-002Z	FERRITE BEADS	
LC301	CE42142-22Z	EMI FILTER	
TU001	QAU0277-001	TUNER	
X301	QAX1B05-001Z	CRYSTAL	
X701	QAX069-001Z	CRYSTAL	
CEM009-05Z	CEMS009-05Z	IC SOCKET	
CEM007-008	CEM007-008	IC SOCKET	

**■POWER & DEF. P.W. BOARD ASS'Y
(SJL-2001A-U2)**

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R401	QRE141J-682Y	C R	6.8kΩ 1/4W J
R402	QRA14CF-6801Y	MF R	6.8kΩ 1/4W F
R403	QRA14CF-3091Y	MF R	3.09kΩ 1/4W F
R404	QRA14CF-8200Y	MF R	820Ω 1/4W F
R405	QRA14CF-8200Y	MF R	820Ω 1/4W F
R406	QRE141J-103Y	C R	10kΩ 1/4W J
R407	QUY153-050Y	IM BUS WIRE	
R409	QRE141J-103Y	C R	10kΩ 1/4W J
R410	QRE141J-102Y	C R	1kΩ 1/4W J
R414	QRE121J-5R6Y	C R	5.6Ω 1/2W J
R415	QRX01GJ-1R8	MF R	1.8Ω 3W J
R416	QRG01GJ-820	OH R	82Ω 3W J
R417	QRE121J-1R0Y	C R	1.0Ω 1/2W J
R461	QRE141J-331Y	C R	330Ω 1/4W J
R463	QRE121J-392Y	C R	3.9kΩ 1/2W J
R464	QRE121J-562Y	C R	5.6kΩ 1/2W J
R465	QRE121J-682Y	C R	6.8kΩ 1/2W J
R466	QRE121J-102Y	C R	1kΩ 1/2W J
R467	QLR189J-330	OM R	33Ω 3W J
R468	QUY160-100Y	IM BUS WIRE	
R492	QRE141J-683Y	C R	68kΩ 1/4W J
R493	QRE141J-224Y	C R	220kΩ 1/4W J
▲ R494	QRZ9017-4R7	F R	4.7Ω 1/4W J
R495	QRE141J-103Y	C R	10kΩ 1/4W J
R496	QRE141J-183Y	C R	18kΩ 1/4W J
R497	QRE141J-153Y	C R	15kΩ 1/4W J
R501	QRE141J-561Y	C R	560Ω 1/4W J
R502	QRE141J-222Y	C R	2.2kΩ 1/4W J
R503	QRE121J-152Y	C R	1.5kΩ 1/2W J
R504	QLR189J-332	OH R	3.3kΩ 3W J
R505	QLR189J-332	OH R	3.3kΩ 3W J
R521	QRE121J-150Y	C R	15Ω 1/2W J
R522	QLR189J-103	OH R	10kΩ 3W J
R523	QRE121J-471Y	C R	470Ω 1/2W J
▲ R524	QRZ9017-4R7	F R	4.7Ω 1/4W J
R525	QRE141J-152Y	C R	1.5kΩ 1/4W J
R541	QRE121J-103Y	C R	10kΩ 1/2W J
R542	QRE121J-222Y	C R	2.2kΩ 1/2W J
R543	QRE121J-124Y	C R	120kΩ 1/2W J
R544	QRE121J-104Y	C R	100kΩ 1/2W J
R545	QRE141J-123Y	C R	12kΩ 1/4W J
R546	QRE121J-104Y	C R	100kΩ 1/2W J
R547	QRE141J-123Y	C R	12kΩ 1/4W J
R548	QRE121J-222Y	C R	2.2kΩ 1/2W J
R551	QRT189J-3R3	MF R	3.3Ω 3W J
R552	QRT189J-3R3	MF R	3.3Ω 3W J
R553	QRF104K-5R6	UNF R	5.6Ω 10W K
▲ R554	QRZ9022-R47	F R	0.47Ω 3W K
▲ R555	QRZ9011-4R7	F R	4.7Ω 1/2W J
R591	QRE121J-123Y	C R	12kΩ 1/2W J
R592	QRA14CF-1201Y	MF R	1.2kΩ 1/4W F
R593	QRE141J-183Y	C R	18kΩ 1/4W J
R594	QRE141J-222Y	C R	2.2kΩ 1/4W J
▲ R595	QRA14CF-1962Y	MF R	19.6kΩ 1/4W F
▲ R596	QRA14CF-2671Y	MF R	2.67kΩ 1/4W F
R597	QRE141J-273Y	C R	27kΩ 1/4W J
R902	QRE121J-331Y	C R	330Ω 1/2W J
R903	QRF104K-3R9	UNF R	3.9Ω 10W K
R904	QRE121J-474Y	C R	470kΩ 1/2W J
R905	QRE121J-474Y	C R	470kΩ 1/2W J
R906	QUY153-050Y	IM BUS WIRE	
R907	QLR189J-823	OH R	82kΩ 3W J
R908	QLR189J-823	OH R	82kΩ 3W J
R909	QGG189J-473	OHF R	47kΩ 3W J
R911	QRM059J-R10	MP R	0.10Ω 5W J
R912	QRT029J-R82	MF R	0.82Ω 2W J
▲ R913	QRZ9017-100	F R	10Ω 1/4W K
R914	QRE121J-272Y	C R	2.7kΩ 1/2W J
R916	QRE141J-103Y	C R	10kΩ 1/4W J
R917	QRE121J-221Y	C R	220Ω 1/2W J
R918	QRE121J-102Y	C R	1kΩ 1/2W J
R932	QUY153-050Y	IM BUS WIRE	
R934	QRE141J-102Y	C R	1kΩ 1/4W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R935	QRE141J-223Y	C R	22kΩ 1/4W J
R936	QRE141J-103Y	C R	10kΩ 1/4W J
R939	QRE141J-1R0Y	C R	1.0Ω 1/4W J
R941	QRE141J-102Y	C R	1kΩ 1/4W J
R952	QRE141J-222Y	C R	2.2kΩ 1/4W J
R964	QRE121J-222Y	C R	2.2kΩ 1/2W J
R967	QRL0B9J-223	OM R	22kΩ 3W J
R976	QRL029J-100	OM R	10Ω 2W J
▲ R991	QRZ0057-825	C R	8.2MΩ 1W J
CAPACITOR			
C401	QEHRLVM-227Z	E CAP.	2200pF 35V M
C402	QETMLVM-108	E CAP.	1000pF 35V M
C403	QFLC2AJ-683Z	M CAP.	0.068μF 100V J
C404	QETNLHH-105Z	E CAP.	1.0μF 50V M
C405	QFLC1HJ-472Z	M CAP.	470pF 50V J
C406	QCZ0B37-180Z	C CAP.	18pF 2W K
C407	QFLC1HJ-102Z	M CAP.	100pF 50V J
C408	QFVF1HJ-334Z	MF CAP.	0.33μF 50V J
C410	QFVF1HJ-334Z	MF CAP.	0.33μF 50V J
C411	QFLC2AJ-563Z	M CAP.	0.056μF 100V J
C451	QFVF1HJ-104Z	E CAP.	0.1μF 50V J
C461	QEZ0L95-475Z	E CAP.	4.7μF 50V M
C462	QETNLHH-106Z	E CAP.	10μF 50V M
C463	QFLC1HJ-153Z	M CAP.	0.015μF 50V J
C464	QFLC1HJ-333Z	M CAP.	0.033μF 50V J
C491	QETNLHH-105Z	E CAP.	1.0μF 50V M
C492	QETNLHH-106Z	E CAP.	10μF 50V M
C502	QCB32HK-681Z	C CAP.	680pF 500V K
C503	QEHRLCM-105Z	E CAP.	1.0μF 160V M
▲ C521	QFZ0200-282	MPP CAP.	2800pF 1.5kV ±3%
▲ C522	QFZ0200-113	MPP CAP.	0.011μF 1.5kV ±3%
▲ C523	QFP32GJ-183	PP CAP.	0.018μF 400V J
C524	QFM72DK-563	M CAP.	0.056μF 200V K
▲ C526	QFZ0199-304	MPP CAP.	0.3μF 250V J
C527	QEHRLEM-475Z	E CAP.	4.7μF 250V M
▲ C529	QFZ0197-473	MPP CAP.	0.047μF 250V J
C530	QCB32HK-561Z	C CAP.	560pF 500V K
C531	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
C533	QCS32HJ-560Z	C CAP.	56pF 500V J
C542	QFZ0197-204	MPP CAP.	0.2μF 250V J
C543	QFZ0197-184	MPP CAP.	0.18μF 250V J
C551	QETN2EM-106Z	E CAP.	10μF 250V M
C552	QCB32HK-152Z	C CAP.	1500pF 500V K
C553	QEHRLEM-108Z	E CAP.	1000pF 25V M
C554	QCB32HK-152Z	C CAP.	1500pF 500V K
C555	QEHRLEM-108Z	E CAP.	1000pF 25V M
C560	QETN2CM-227	E CAP.	220pF 160V M
C591	QETNLAM-107Z	E CAP.	100pF 10V M
C592	QETNLHM-476Z	E CAP.	47μF 25V M
C593	QETN2AM-106Z	E CAP.	10μF 100V M
C594	QETNLAM-227Z	E CAP.	220pF 10V M
▲ C901	QFZ075-473	MPP CAP.	0.047μF 275V M
▲ C904	QCZ054-472	C CAP.	470pF 250V Z
▲ C905	QCZ054-472	C CAP.	470pF 250V Z
▲ C906	QCZ054-472	C CAP.	470pF 250V Z
C907	QEZ0L99-227	E CAP.	220pF 400V M
C908	QCB31HK-103	C CAP.	0.01μF 500V K
C909	QCZ0L22-391	C CAP.	390pF 2kV K
C910	QCZ0L22-681	C CAP.	680pF 2kV K
C912	QCB31HK-102Z	C CAP.	1000pF 50V K
C916	QETNLHM-476Z	E CAP.	47μF 50V M
C917	QETNLHM-475Z	E CAP.	4.7μF 50V M
C918	QCB31HK-152Z	C CAP.	1500pF 50V K
C920	QFVF1HJ-334Z	MF CAP.	0.33μF 50V J
C933	QETMLVM-338	E CAP.	3300pF 35V M
C951	QCZ0L22-561	C CAP.	560pF 2kV K
C952	QEZ0Q3-227	E CAP.	220pF 160V M
C953	QCB32HK-391Z	C CAP.	390pF 500V K
C954	QTHMLEH-228	E CAP.	2200pF 25V M
C955	QCB32HK-391Z	C CAP.	390pF 500V K
C956	QTHMLCH-228	E CAP.	2200pF 16V M
C958	QCB32HK-391Z	C CAP.	390pF 500V K
C959	QETMLVH-338	E CAP.	3300pF 35V M

AV28T25EKS
AV28T25EKB
AV28T55EKS

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C964	QFVF1HJ-684Z	MF CAP.	0.68μF 50V J
C968	QCZ0120-104Z	C CAP.	0.1μF 25V Z
C969	QEHRICM-477Z	E CAP.	470μF 16V M
C970	QEHRICM-107Z	E CAP.	100μF 16V M
C971	QCZ0120-104Z	C CAP.	0.1μF 25V Z
C972	QETN1CM-227Z	E CAP.	220μF 16V M
C973	QETN1EM-476Z	E CAP.	47μF 25V M
C974	QCZ0120-104Z	C CAP.	0.1μF 25V Z
C975	QETN1AM-227Z	E CAP.	220μF 10V M
C976	QETN1EM-476Z	E CAP.	47μF 25V M
C991	QCZ079-332	C CAP.	330μFAC250V M
C992	QCZ079-471	C CAP.	330μFAC250V K
TRANSFORMER			
T501	CE42034-002	HOR DRIVE TRANS	
▲ T551	QQH0122-001	FB TRANSF	
▲ T901	QOS0144-001	SW TRANSF	
COIL			
L461	QL1Z027-821	INDUCTOR	
L521	QL1Z028-501	INDUCTOR	
L522	QQR1106-001	LINEARITY COIL	
L901	QL1402K-100	COIL	10.0H K
L902	QL1402K-100	COIL	10.0H K
▲ L903	QQR1200-001	LINEARITY COIL	
L951	QL1Z026-460	INDUCTOR	
L952	QL1Z6AK-820Z	COIL	82.0H K
L953	QL1Z6AM-SR6Z	INDUCTOR	
L954	QL1Z6AM-SR6Z	INDUCTOR	
L955	QL1Z6AK-220Z	COIL	22.0H K
DIODE			
D402	1N4003-T2	SI DIODE	
D451	EU2-T3	SI DIODE	
D491	ISS133-T2	SI DIODE	
D492	MTZ12B-T2	Z DIODE	
D493	ISS133-T2	SI DIODE	
D494	ISS1B3-T2	SI DIODE	
D521	RH3C-F1	SI DIODE	
D522	RU30A-F1	SI DIODE	
D523	EU2-T3	SI DIODE	
D525	MTZ19.1B-T2	Z DIODE	
D551	EU2-T3	SI DIODE	
D553	EU2-T3	SI DIODE	
D554	EU2-T3	SI DIODE	
D591	MTZ15B-T2	Z DIODE	
D592	MTZ17.5B-T2	Z DIODE	
D593	EU2-T3	SI DIODE	
D594	MTZ17.5S-T2	Z DIODE	
▲ D901	D35B60	BRIDGE DIODE	
D902	RG1C-LFA1	SI DIODE	
D904	AU01Z-T2	FR DIODE	
D905	AU01Z-T2	FR DIODE	
D906	MTZ14.7A-T2	Z DIODE	
D907	MTZ15B-T2	Z DIODE	
D909	ISS133-T2	SI DIODE	
D910	QUY153-050Y	IM BUS WIRE	
D911	MTZ15B-T2	Z DIODE	
D913	MTZ12B-T2	Z DIODE	
D951	RU4B-F1	SI DIODE	
D953	EU2-T3	SI DIODE	
D954	EU2-T3	SI DIODE	
D955	FNX-G12S	SI DIODE	
D957	RGP10J-5025-T3	SI DIODE	
D958	1SR35-400A-T2	SI DIODE	
D961	QUY153-050Y	IM BUS WIRE	
D962	QUY153-050Y	IM BUS WIRE	
D963	MTZ13.9B-T2	Z DIODE	
D964	MTZ13B-T2	Z DIODE	
D965	MTZ14.3B-T2	Z DIODE	
D981	ISS133-T2	SI DIODE	
D982	ISS133-T2	SI DIODE	
D983	ISS1B3-T2	SI DIODE	
D985	MTZ17.5C-T2	Z DIODE	

Symbol No.	Part No.	Part Name	Description
TRANSISTOR			
Q402	2SC1740S/QR-T	TRANSISTOR	
Q461	2SD1408/Y/-LB	POW TRANSISTOR	
Q462	2SA933AS/QR-T	TRANSISTOR	
Q463	2SA933AS/QR-T	TRANSISTOR	
Q501	BSN304-T	MOS FET	
▲ Q521	2SD2553-LB	POW TRANSISTOR	H. OUT
Q541	DTC124ESA-T	DIGI TRANSISTOR	
Q542	DTC124ESA-T	DIGI TRANSISTOR	
Q543	IRF620	POWER MOS FET	
Q544	2SK2459N-F54	POWER MOS FET	
Q545	2SK2459N-F54	POWER MOS FET	
Q546	DTC124ESA-T	DIGI TRANSISTOR	
Q591	2SA949/Y/Z1-T	TRANSISTOR	
Q592	DTC124ESA-T	DIGI TRANSISTOR	
Q593	2SC1740S/QR-T	TRANSISTOR	
Q591	2SC1740S/QR-T	TRANSISTOR	
Q592	DTC124ESA-T	DIGI TRANSISTOR	
IC			
▲ IC401	LA78041	IC	
IC901	STR-F6254/F7	IC	
IC951	SE140N	IC	
IC952	BA12T	IC	
IC953	BA17809T	IC	
IC954	PQ08RF11	IC	
OTHERS			
CN008 -5	QGB1506M1-16	B TO B CONNE	
CN009	QGA2501C5-06Z	W TO B CONNE	
▲ CP951	QUY153-050Y	IM BUS WIRE	
▲ CP952	QUY153-050Y	IM BUS WIRE	
▲ CP953	QHF034-5R0Z-J1	FUSE	5.0A
▲ CP955	ICP-N5-Y	IC PROTECTOR	
K401	QQR021-002Z	FERRITE BEADS	
K503	QQR0582-001Z	FERRITE BEADS	
K504	QQR0582-001Z	FERRITE BEADS	
K901	QQR0579-001	FERRITE BEADS	
K904	QQR0579-001	FERRITE BEADS	
K951	QQR0872-001Y	FERRITE BEADS	
K952	QQR0521-002Z	FERRITE BEADS	
K953	QQR0521-002Z	FERRITE BEADS	
K954	QQR0521-002Z	FERRITE BEADS	
K956	QQR0521-002Z	FERRITE BEADS	
LF902	QQR1095-001	LINE FILTER	
▲ PC541	PC12BFY2	IC(MOTO COUPLE	
▲ PC542	PC12BFY2	IC(MOTO COUPLE	
▲ PC901	PC12BFY2	IC(MOTO COUPLE	
▲ TH901	CEKP002-003	W POSISTOR	

**■CRT SOCKET P.W. BOARD ASS'Y
(SJL-3001A-U2)**

Symbol No.	Part No.	Part Name	Description	Symbol No.	Part No.	Part Name	Description
RESISTOR							
R3101	NRS463J-101X	MG R	100Ω 1/16W J	C3317	QETNLAM-337Z	E CAP.	330μF 10V M
R3102	NRS463J-101X	MG R	100Ω 1/16W J	L3101	QUY153-050Y	IM BUS WIRE	
R3103	NRS463J-101X	MG R	100Ω 1/16W J	L3102	QUY153-050Y	IM BUS WIRE	
R3107	NRS463J-392X	MG R	3.9Ω 1/16W J	L3103	QUY153-050Y	IM BUS WIRE	
R3108	NRS463J-392X	MG R	3.9Ω 1/16W J	L3301	QL244J-391Z	INDUCTOR	
R3109	NRS463J-392X	MG R	3.9Ω 1/16W J				
R3110	NRS463J-221X	MG R	22Ω 1/16W J				
R3111	NRS463J-221X	MG R	22Ω 1/16W J				
R3112	NRS463J-221X	MG R	22Ω 1/16W J				
R3113	NRS463J-470X	MG R	47Ω 1/16W J				
R3114	NRS463J-470X	MG R	47Ω 1/16W J				
R3115	NRS463J-470X	MG R	47Ω 1/16W J				
R3116	QRL029J-153	OH R	15kΩ 2W J	D3151	MA111-X	SI DIODE	
R3117	QRL029J-153	OH R	15kΩ 2W J	D3152	MA3082/L/-X	Z DIODE	
R3118	QRL029J-153	OH R	15kΩ 2W J	D3153	MA111-X	SI DIODE	
R3119	QRL029J-183	OH R	18kΩ 2W J	D3154	MA111-X	SI DIODE	
R3120	QRL029J-183	OH R	18kΩ 2W J	D3155	MA111-X	SI DIODE	
R3121	QRL029J-183	OH R	18kΩ 2W J	D3156	MA3047/H/-X	Z DIODE	
R3125	QRZ0107-102Z	C R	1kΩ 1/2W K	D3163	MA3150/M/-X	Z DIODE	
R3126	QRZ0107-102Z	C R	1kΩ 1/2W K	D3164	1SR35-400A-T2	SI DIODE	
R3127	QRZ0107-102Z	C R	1kΩ 1/2W K	D3302	RH15-T3	SI DIODE	
R3130	QRG016J-101	OH R	100Ω 1W J	D3303	RH15-T3	SI DIODE	
R3135	QRZ0107-474Z	C R	470kΩ 1/2W K				
R3136	QRE211J-474Y	C R	470kΩ 1/2W J				
R3137	QRZ0107-102Z	C R	1kΩ 1/2W K				
R3138	QRE211J-105Y	C R	1MΩ 1/2W J				
R3151	NRS463J-102X	MG R	1kΩ 1/16W J				
R3152	NRS463J-472X	MG R	4.7kΩ 1/16W J				
R3154	NRS463J-0R0X	MG R	0.0Ω 1/16W J				
R3308	NRS463J-101X	MG R	100Ω 1/16W J				
R3312	NRS463J-153X	MG R	15kΩ 1/16W J				
R3313	NRS463J-152X	MG R	1.5kΩ 1/16W J				
R3314	NRS463J-221X	MG R	22Ω 1/16W J				
R3315	NRS463J-101X	MG R	100Ω 1/16W J				
R3316	NRS463J-222X	MG R	2.2Ω 1/16W J				
R3317	NRS463J-470X	MG R	47Ω 1/16W J				
R3318	QRJ146J-100X	C R	10Ω 1/4W J				
R3319	NRS463J-470X	MG R	47Ω 1/16W J				
R3320	NRS463J-122X	MG R	1.2kΩ 1/16W J				
R3321	NRS463J-390X	MG R	39Ω 1/16W J				
R3322	QRE211J-2R7Y	C R	2.7Ω 1/2W J				
R3323	QRE211J-563Y	C R	56kΩ 1/2W J				
R3324	QRE211J-563Y	C R	56kΩ 1/2W J				
R3325	NRS463J-122X	MG R	1.2kΩ 1/16W J				
R3326	QRE211J-2R7Y	C R	2.7Ω 1/2W J				
R3327	NRS463J-390X	MG R	39Ω 1/16W J				
R3328	NRS463J-121X	MG R	120Ω 1/16W J				
R3329	QRL029J-391	OH R	390Ω 2W J				
CAPACITOR							
C3101	NDC31HJ-391X	C CAP.	390pF 50V J	CN3008	OJK002-083633	SIN CR C-B WIRE	
C3102	NDC31HJ-391X	C CAP.	390pF 50V J	CN3009	OJK002-063631	SIN CR C-B WIRE	
C3108	NDC31HJ-391X	C CAP.	390pF 50V J	FR330	QRZ021-561	F R	560Ω 1W J
C3104	QETNLCM-107Z	E CAP.	100fF 16V M	K3101	QR0621-002Z	FERRITE BEADS	
C3105	QETNLEM-476Z	E CAP.	47fF 25V M	K3301	CE41492-001Z	CHOME COIL	
C3107	QETNLHM-106Z	E CAP.	10fF 50V M	K3302	CE41492-001Z	CHOME COIL	
C3113	QCZ0131-222	C CAP.	2200pF 2kV K	K3303	CE41492-001Z	CHOME COIL	
C3114	QETN2EM-336	E CAP.	33fF 250V M	K3304	CE41492-001Z	CHOME COIL	
C3115	QETN2EM-106	E CAP.	10fF 250V M	SK3001	QN20536-001	CRT SOCKET	
C3116	NRS463J-0R0X	MG R	0.0Ω 1/16W J				
C3304	NCB31HK-103X	C CAP.	0.01μF 50V K				
C3305	QETNLHM-335Z	E CAP.	3.3fF 50V M				
C3306	QETNLCM-107Z	E CAP.	100fF 16V M				
C3307	NDC31HJ-5R0X	C CAP.	5.0pF 50V J				
C3308	QETN2CM-106Z	E CAP.	10fF 160V M				
C3309	QCB32HK-472Z	C CAP.	4700pF 500V K				
C3310	QETN2CM-106Z	E CAP.	10fF 160V M				
C3311	NDC31HJ-821X	C CAP.	820pF 50V J				
C3312	QCB32HK-472Z	C CAP.	4700pF 500V K				
C3313	NDC31HJ-561X	C CAP.	580pF 50V J				
C3314	QETNLCM-107Z	E CAP.	100fF 16V M				
C3315	QCS32HK-680Z	C CAP.	68pF 500V J				
C3316	QETNLCM-107Z	E CAP.	100fF 16V M				

AV28T25EKS
AV28T25EKB
AV28T55EKS

**■ FRONT CONTROL P.W. BOARD ASS'Y
(SJL-8003A-U2)**

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R8801	NRSAG3J-561X	MG R	560Ω 1/16W J
R8802	NRSAG3J-561X	MG R	560Ω 1/16W J
R8804	NRSAG3J-103X	MG R	10KΩ 1/16W J
R8851	NRSAG3J-152X	MG R	1.5KΩ 1/16W J
CAPACITOR			
C8851	NCB31CK-104X	C CAP.	0.1μF 16V K
C8852	QETNLCM-107Z	E CAP.	100μF 16V M
C8901	QFZ9075-474	MPP CAP.	0.47μFAC275V M
DIODE			
D8801	SPR-39MVWF	LED	
D8851	MA3068/M-X	Z DIODE	
TRANSISTOR			
Q8801	DTA124EKA-X	DIGI TRANSISTOR	
Q8802	DTA124EKA-X	DIGI TRANSISTOR	
Q8803	DTC124EKA-X	DIGI TRANSISTOR	
IC			
IC8851	GP1U281Q	IR DETECT UNIT	
OTHERS			
CN8101	QGF1220C2-19	FFC/FPC CONNE	
F8901	QMF51D2-3R15J1	FUSE	3.15A
LF8901	QOR095-001	LINE FILTER	
S8901	QSW0824-001	PUSH SWITCH	MAIN POWER
	LC30849-001A-H	LED HOLDER	
	CEM002-001Z	FUSE CLIP	

**■ SIDE CONTROL P.W. BOARD ASS'Y
(SJL-8103A-U2)**

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R8001	QRE121J-271Y	C R	270Ω 1/2W J
R8002	QRE121J-271Y	C R	270Ω 1/2W J
R8010	NRSAG3J-103X	MG R	10KΩ 1/16W J
R8011	NRSAG3J-103X	MG R	10KΩ 1/16W J
R8012	NRSAG3J-103X	MG R	10KΩ 1/16W J
R8021	NRSAG3J-102X	MG R	1KΩ 1/16W J
R8022	NRSAG3J-102X	MG R	1KΩ 1/16W J
R8317	NRSAG3J-750X	MG R	75Ω 1/16W J
CAPACITOR			
C8001	NCB31HK-103X	C CAP.	0.01μF 50V K
C8002	NCB31HK-103X	C CAP.	0.01μF 50V K
C8003	NCB31HK-102X	C CAP.	1000pF 50V K
C8004	NCB31HK-102X	C CAP.	1000pF 50V K
C8310	NCB31HK-472X	C CAP.	4700pF 50V K
C8311	NCB31HK-472X	C CAP.	4700pF 50V K
C8321	NCB31CK-104X	C CAP.	0.1μF 16V K
COIL			
L8001	QQR0716-001Z	FERRITE BEADS	
L8002	QQL244K-5R6Z	COIL	5.6μH K
L8003	QQL244K-5R6Z	COIL	5.6μH K
L8310	QQL244K-270Z	INDUCTOR	
L8311	QQL244K-270Z	INDUCTOR	
L8312	QQR0716-001Z	FERRITE BEADS	
OTHERS			
CN8016	QGA2501C5-05Z	W TO B CONNE	
J8001	QNS0169-001	3.5 JACK	
J8308	QNZ0438-001	AV JACK	
S8001	QSW0619-003Z	TACT SWITCH	CH UP
S8002	QSW0619-003Z	TACT SWITCH	MENU
S8003	QSW0619-003Z	TACT SWITCH	CH DOWN

■ AV SW P.W. BOARD ASS'Y (SJL0S002A-U2)

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0101	NRSAG3J-750X	MG R	75Ω 1/16W J
R0102	NRSAG3J-750X	MG R	75Ω 1/16W J
R0103	NRSAG3J-750X	MG R	75Ω 1/16W J
R0104	NRSAG3J-750X	MG R	75Ω 1/16W J
R0105	NRSAG3J-750X	MG R	75Ω 1/16W J
R0106	NRSAG3J-750X	MG R	75Ω 1/16W J
R0107	NRSAG3J-750X	MG R	75Ω 1/16W J
R0108	NRSAG3J-750X	MG R	75Ω 1/16W J
R0110	NRSAG3J-823X	MG R	82kΩ 1/16W J
R0112	NRSAG3J-823X	MG R	82kΩ 1/16W J
R0113	NRSAG3J-750X	MG R	75Ω 1/16W J
R0114	NRSAG3J-473X	MG R	47kΩ 1/16W J
R0115	NRSAG3J-223X	MG R	22kΩ 1/16W J
R0116	NRSAG3J-223X	MG R	22kΩ 1/16W J
R0117	NRSAG3J-823X	MG R	82kΩ 1/16W J
R0118	NRSAG3J-823X	MG R	82kΩ 1/16W J
R0119	NRSAG3J-391X	MG R	39Ω 1/16W J
R0120	NRSAG3J-391X	MG R	39Ω 1/16W J
R0123	NRSAG3J-104X	MG R	100kΩ 1/16W J
R0124	NRSAG3J-101X	MG R	10Ω 1/16W J
R0125	NRSAG3J-101X	MG R	10Ω 1/16W J
R0126	NRSAG3J-333X	MG R	33kΩ 1/16W J
R0127	NRSAG3J-101X	MG R	10Ω 1/16W J
R0128	NRSAG3J-103X	MG R	10kΩ 1/16W J
R0129	NRSAG3J-823X	MG R	82kΩ 1/16W J
R0130	NRSAG3J-473X	MG R	47kΩ 1/16W J
R0131	NRSAG3J-273X	MG R	27Ω 1/16W J
R0132	NRSAG3J-153X	MG R	15kΩ 1/16W J
R0133	NRSAG3J-222X	MG R	2.2kΩ 1/16W J
R0134	NRSAG3J-333X	MG R	33Ω 1/16W J
R0135	NRSAG3J-222X	MG R	2.2kΩ 1/16W J
R0136	NRSAG3J-333X	MG R	33Ω 1/16W J
R0137	NRSAG3J-333X	MG R	33Ω 1/16W J
R0138	NRSAG3J-473X	MG R	47kΩ 1/16W J
R0139	NRSAG3J-823X	MG R	82kΩ 1/16W J
R0140	NRSAG3J-103X	MG R	10Ω 1/16W J
R0141	NRSAG3J-153X	MG R	15kΩ 1/16W J
R0142	NRSAG3J-223X	MG R	22Ω 1/16W J
R0143	NRSAG3J-473X	MG R	47kΩ 1/16W J
R0144	NRSAG3J-273X	MG R	27Ω 1/16W J
R0146	NRSAG3J-391X	MG R	39Ω 1/16W J
R0148	NRSAG3J-391X	MG R	39Ω 1/16W J
R0151	NRSAG3J-104X	MG R	100kΩ 1/16W J
R0152	NRSAG3J-222X	MG R	2.2kΩ 1/16W J
R0153	NRSAG3J-333X	MG R	33Ω 1/16W J
R0154	NRSAG3J-222X	MG R	2.2kΩ 1/16W J
R0155	NRSAG3J-333X	MG R	33Ω 1/16W J
R0156	NRSAG3J-101X	MG R	10Ω 1/16W J
R0157	NRSAG3J-101X	MG R	10Ω 1/16W J
R0158	NRSAG3J-101X	MG R	10Ω 1/16W J
R0159	NRSAG3J-101X	MG R	10Ω 1/16W J
R0160	NRSAG3J-101X	MG R	10Ω 1/16W J
R0161	NRSAG3J-101X	MG R	10Ω 1/16W J
R0162	NRSAG3J-101X	MG R	10Ω 1/16W J
R0163	NRSAG3J-101X	MG R	10Ω 1/16W J
R0164	NRSAG3J-101X	MG R	10Ω 1/16W J
R0165	NRSAG3J-101X	MG R	10Ω 1/16W J
R0166	NRSAG3J-101X	MG R	10Ω 1/16W J
R0167	NRSAG3J-101X	MG R	10Ω 1/16W J
R0168	NRSAG3J-101X	MG R	10Ω 1/16W J
R0169	NRSAG3J-101X	MG R	10Ω 1/16W J
R0170	NRSAG3J-333X	MG R	33Ω 1/16W J
R0171	NRSAG3J-222X	MG R	2.2kΩ 1/16W J
R0172	NRSAG3J-473X	MG R	47kΩ 1/16W J
R0173	NRSAG3J-823X	MG R	82kΩ 1/16W J
R0174	NRSAG3J-103X	MG R	10Ω 1/16W J
R0175	NRSAG3J-153X	MG R	15kΩ 1/16W J
R0176	NRSAG3J-473X	MG R	47kΩ 1/16W J
R0177	NRSAG3J-273X	MG R	27Ω 1/16W J
R0180	NRSAG3J-101X	MG R	10Ω 1/16W J
R0181	NRSAG3J-101X	MG R	10Ω 1/16W J
R0182	NRSAG3J-101X	MG R	10Ω 1/16W J
R0183	NRSAG3J-101X	MG R	10Ω 1/16W J
R0184	NRSAG3J-333X	MG R	33Ω 1/16W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R0185	NRS463J-222X	MG R	2.2kΩ 1/16W J
R0186	NRS463J-333X	MG R	33kΩ 1/16W J
R0188	NRS463J-101X	MG R	100Ω 1/16W J
R0189	NRS463J-221X	MG R	220Ω 1/16W J
R0190	NRS463J-221X	MG R	220Ω 1/16W J
R0191	NRS463J-562X	MG R	5.6kΩ 1/16W J
R0192	NRS463J-562X	MG R	5.6kΩ 1/16W J
R0193	NRS463J-102X	MG R	1kΩ 1/16W J
R0194	NRS463J-102X	MG R	1kΩ 1/16W J
R0195	QRG01GJ-101	OH R	100Ω 1M J
R0197	QRK26J-181X	C R	180Ω 1/2W J
R0198	NRS463J-750X	MG R	75Ω 1/16W J
R0199	NRS463J-101X	MG R	100Ω 1/16W J
R0202	QRK26J-151X	C R	150Ω 1/2W J
R0208	NRS463J-750X	MG R	75Ω 1/16W J
R0204	NRS463J-750X	MG R	75Ω 1/16W J
R0205	NRS463J-750X	MG R	75Ω 1/16W J
R0207	NRS463J-222X	MG R	2.2kΩ 1/16W J
R0208	NRS463J-333X	MG R	33kΩ 1/16W J
R0209	NRS463J-222X	MG R	2.2kΩ 1/16W J
R0210	NRS463J-333X	MG R	33kΩ 1/16W J
R0211	NRS463J-103X	MG R	10kΩ 1/16W J
R0212	NRS463J-103X	MG R	10kΩ 1/16W J
R0606	QRG01GJ-181	OH R	180Ω 1M J
R0628	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R0629	NRS463J-101X	MG R	100Ω 1/16W J
R0630	NRS463J-101X	MG R	100Ω 1/16W J
R0631	NRS463J-103X	MG R	10kΩ 1/16W J
R0632	NRS463J-223X	MG R	22kΩ 1/16W J
R0633	NRS463J-272X	MG R	2.7kΩ 1/16W J
R0634	NRS463J-223X	MG R	22kΩ 1/16W J
R0635	NRS463J-272X	MG R	2.7kΩ 1/16W J
R0636	NRS463J-682X	MG R	6.8kΩ 1/16W J
R0638	NRS463J-682X	MG R	6.8kΩ 1/16W J
R0639	NRS463J-103X	MG R	10kΩ 1/16W J
R0647	NRS463J-101X	MG R	100Ω 1/16W J
R0648	NRS463J-101X	MG R	100Ω 1/16W J

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C0140	QETNLCH-107Z	E CAP.	100μF 16V M
C0141	NCB31HK-103X	C CAP.	0.01μF 50V K
C0142	NCF31AZ-105X	C CAP.	1μF 10V Z
C0143	QENCLEM-106Z	BP E CAP.	10μF 25V M
C0144	NCF31AZ-105X	C CAP.	1μF 10V Z
C0145	QETNLCH-107Z	E CAP.	100μF 16V M
C0146	QETNLCH-107Z	E CAP.	100μF 16V M
C0147	QETNLCH-477Z	E CAP.	470μF 16V M
C0149	NCB31HK-103X	C CAP.	0.01μF 50V K
C0150	QETNLHH-106Z	E CAP.	10μF 50V M
C0151	QETNLHH-106Z	E CAP.	10μF 50V M
C0152	QETNLHH-105Z	E CAP.	1.0μF 50V M
C0153	QETNLHH-105Z	E CAP.	1.0μF 50V M
C0154	NDC31HJ-680X	C CAP.	68pF 50V J
C0155	NDC31HJ-680X	C CAP.	68pF 50V J
C0157	NDC31HJ-680X	C CAP.	68pF 50V J
C0158	NDC31HJ-680X	C CAP.	68pF 50V J
C0616	QETNLCH-107Z	E CAP.	100μF 16V M
C0617	NCB31CK-104X	C CAP.	0.1μF 16V K
C0618	QETNLHH-106Z	E CAP.	10μF 50V M
C0619	NCB31CK-104X	C CAP.	0.1μF 16V K
C0620	QETNLHH-106Z	E CAP.	10μF 50V M
C0621	NCF21CZ-105X	C CAP.	1μF 16V Z
C0622	NCF21CZ-105X	C CAP.	1μF 16V Z
C0623	NCB31CK-104X	C CAP.	0.1μF 16V K
C0624	QETNLHH-106Z	E CAP.	10μF 50V M
C0629	QETNLHH-106Z	E CAP.	10μF 50V M
C0630	NCB31HK-102X	C CAP.	1000pF 50V K
C0631	NCB31HK-102X	C CAP.	1000pF 50V K
C0632	NCB31CK-104X	C CAP.	0.1μF 16V K
C0633	QETNLHH-106Z	E CAP.	10μF 50V M
C0634	NCB31HK-103X	C CAP.	0.01μF 50V K
C0635	NCB31HK-103X	C CAP.	0.01μF 50V K
C0636	NDC31HJ-2R0X	C CAP.	2.0pF 50V J
C0642	NDC31HJ-2R0X	C CAP.	2.0pF 50V J
C0645	NCB31HK-103X	C CAP.	0.01μF 50V K
C0646	NCB31CK-104X	C CAP.	0.1μF 16V K
C0647	QETNLCH-107Z	E CAP.	100μF 16V M
C0648	NCB31CK-104X	C CAP.	0.1μF 16V K
C0649	QETNLCH-107Z	E CAP.	100μF 16V M
C0650	NDC31HJ-221X	C CAP.	220pF 50V J
C0651	NCB31HK-562X	C CAP.	560pF 50V K
C0652	QETNLEM-476Z	E CAP.	47μF 25V M
C0653	NDC31HJ-221X	C CAP.	220pF 50V J
C0654	NCB31HK-562X	C CAP.	560pF 50V K
C0659	NCF21CZ-105X	C CAP.	1μF 16V Z
C0660	NCF21CZ-105X	C CAP.	1μF 16V Z
C0677	NCB31HK-102X	C CAP.	1000pF 50V K
C0678	NCB31HK-102X	C CAP.	1000pF 50V K
COIL			
L0114	QQR0716-001Z	FERRITE BEADS	
L0608	ORN143J-0R0X	C R	0.02 1/4W J
L0605	QQL244K-4R7Z	COIL	4.7μH K
DIODE			
D0101	MA3120/M/-X	Z DIODE	
D0102	MA3120/M/-X	Z DIODE	
D0103	MA3120/M/-X	Z DIODE	
D0104	MA3120/M/-X	Z DIODE	
D0105	MA3120/M/-X	Z DIODE	
D0106	MA3120/M/-X	Z DIODE	
D0107	MA3120/M/-X	Z DIODE	
D0108	MA3120/M/-X	Z DIODE	
D0109	MA3120/M/-X	Z DIODE	
D0110	MA3120/M/-X	Z DIODE	
D0111	MA3120/M/-X	Z DIODE	
D0112	MA3120/M/-X	Z DIODE	
D0113	MA3120/M/-X	Z DIODE	
D0601	RD8.2E/B2/-T2	Z DIODE	
Q0101	DTC323TK-X	DIGI TRANSISTOR	
Q0102	2SA1037AK/QR/-X	TRANSISTOR	
Q0103	DTC323TK-X	DIGI TRANSISTOR	
Q0104	2SC2412K/QR/-X	TRANSISTOR	
Q0105	2SC2412K/QR/-X	TRANSISTOR	
Q0106	2SC2412K/QR/-X	TRANSISTOR	

AV28T25EKS
AV28T25EKB
AV28T55EKS

Symbol No.	Part No.	Part Name	Description
TRANSISTOR			
Q0107	2SC2412K/QR/-X	TRANSISTOR	
Q0108	2SA037AK/QR/-X	TRANSISTOR	
Q0109	DTC323TK-X	DIGI TRANSISTOR	
Q0110	DTC323TK-X	DIGI TRANSISTOR	
Q0111	2SC2412K/QR/-X	TRANSISTOR	
Q0112	2SC2412K/QR/-X	TRANSISTOR	
Q0116	2SA933AS/QR/-T	TRANSISTOR	
Q0118	2SC1740S/QR/-T	TRANSISTOR	
Q0119	2SC2412K/QR/-X	TRANSISTOR	
Q0120	2SC2412K/QR/-X	TRANSISTOR	
IC			
IC0101	CXA20890-Y	IC	
IC0003	HSP3415DQGB3GHX	IC	
IC0004	BA4558F-X	IC	
OTHERS			
CN0006	QGB1505K1-50	B TO B CONNE	
J0001	QN20465-001	21P CONNECTOR	
J0002	QN20463-001	21P CONNECTOR	
K0101	CE42681-001Y	CHIP BEADS CORE	
K0102	CE42681-001Y	CHIP BEADS CORE	
K0103	CE42681-001Y	CHIP BEADS CORE	
K0104	CE42681-001Y	CHIP BEADS CORE	
K0601	NQR0889-003X	FERRITE BEADS	
K0602	NQR0889-003X	FERRITE BEADS	
LC0001	NQR0431-001X	EMI FILTER	
X0601	CE42546-001Z	X TAL	

AV28T25EIS**PRINTED WIRING BOARD PARTS LIST****MAIN P.W. BOARD ASS'Y (SJL-1006A-U2)**

Symbol No.	Part No.	Part Name	Description
R002	NRS463J-101X	MG R	100Ω 1/16W J
R003	NRS463J-101X	MG R	100Ω 1/16W J
R004	NRS463J-101X	MG R	100Ω 1/16W J
R005	NRS463J-101X	MG R	100Ω 1/16W J
R006	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R007	NRS463J-222X	MG R	2.2Ω 1/16W J
R008	NRS463J-102X	MG R	1KΩ 1/16W J
R009	NRS463J-561X	MG R	560Ω 1/16W J
R010	NRS463J-331X	MG R	330Ω 1/16W J
R011	NRS463J-102X	MG R	1KΩ 1/16W J
R304	QRG01GJ-121	OH R	120Ω 1M J
R305	NRS463J-562X	MG R	5.6KΩ 1/16W J
R306	NRS463J-222X	MG R	2.2Ω 1/16W J
R307	NRS463J-102X	MG R	1KΩ 1/16W J
R308	NRS463J-471X	MG R	470Ω 1/16W J
R309	NRS463J-222X	MG R	2.2Ω 1/16W J
R310	NRS463J-391X	MG R	390Ω 1/16W J
R311	NRS463J-391X	MG R	390Ω 1/16W J
R312	NRS463J-101X	MG R	100Ω 1/16W J
R313	NRS463J-101X	MG R	100Ω 1/16W J
R314	NRS463J-562X	MG R	5.6KΩ 1/16W J
R316	NRS463J-224X	MG R	220Ω 1/16W J
R317	NRS463J-101X	MG R	100Ω 1/16W J
R321	NRS463J-102X	MG R	1KΩ 1/16W J
R327	NRS463J-471X	MG R	470Ω 1/16W J
R330	NRS463J-472X	MG R	4.7Ω 1/16W J
R331	NRS463J-152X	MG R	1.5KΩ 1/16W J
R332	NRS463J-332X	MG R	3.3KΩ 1/16W J
R333	NRS463J-472X	MG R	4.7Ω 1/16W J
R335	NRS463J-273X	MG R	27KΩ 1/16W J
R336	NRS463J-103X	MG R	10KΩ 1/16W J
R337	NRS463J-102X	MG R	1KΩ 1/16W J
R340	NRS463J-103X	MG R	10KΩ 1/16W J
R341	NRS463J-103X	MG R	10KΩ 1/16W J
R342	NRS463J-152X	MG R	1.5KΩ 1/16W J
R344	NRS463J-102X	MG R	1KΩ 1/16W J
R345	NRS463J-562X	MG R	5.6KΩ 1/16W J
R346	NRS463J-333X	MG R	33KΩ 1/16W J
R401	NRS463J-103X	MG R	10KΩ 1/16W J
R402	NRS463J-103X	MG R	10KΩ 1/16W J
R403	NRS463J-102X	MG R	1KΩ 1/16W J
R404	NRS463J-183X	MG R	18KΩ 1/16W J
R405	NRS463J-223X	MG R	22KΩ 1/16W J
R409	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R411	NRS463D-473X	MG R	47KΩ 1/16W D
R413	NRS463D-223X	MG R	22KΩ 1/16W D
R414	NRS463D-101X	MG R	100Ω 1/16W D
R415	NRS463J-562X	MG R	5.6KΩ 1/16W J
R416	NRS463J-101X	MG R	100Ω 1/16W J
R417	NRS463J-223X	MG R	22KΩ 1/16W J
R418	NRS463J-682X	MG R	6.8KΩ 1/16W J
R419	NRS463J-562X	MG R	5.6KΩ 1/16W J
R420	NRS463J-183X	MG R	18KΩ 1/16W J
R502	NRS463J-108X	MG R	10KΩ 1/16W J
R503	NRS463J-104X	MG R	100Ω 1/16W J
R504	NRS463J-822X	MG R	8.2KΩ 1/16W J
R505	NRS463J-221X	MG R	220Ω 1/16W J
R506	NRS463J-221X	MG R	220Ω 1/16W J
R507	NRS463J-102X	MG R	1KΩ 1/16W J
R508	NRS463J-223X	MG R	22KΩ 1/16W J
R509	NRS463J-223X	MG R	22KΩ 1/16W J
R511	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R514	NRS463J-472X	MG R	4.7Ω 1/16W J
R516	NRS463J-222X	MG R	2.2Ω 1/16W J
R517	NRS463J-472X	MG R	4.7Ω 1/16W J
R518	NRS463J-682X	MG R	6.8KΩ 1/16W J
R519	NRS463J-562X	MG R	5.6KΩ 1/16W J
R520	NRS463J-152X	MG R	1.5KΩ 1/16W J
R551	QRK126J-100X	C R	10Ω 1/2W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R552	NRS463J-124X	MG R	120Ω 1/16W J
R553	NRS463J-683X	MG R	68KΩ 1/16W J
R554	NRS463J-333X	MG R	33KΩ 1/16W J
R555	NRS463J-472X	MG R	4.7KΩ 1/16W J
R556	NRS463J-154X	MG R	150Ω 1/16W J
R557	NRS463J-562X	MG R	5.6KΩ 1/16W J
R558	NRS463J-562X	MG R	5.6KΩ 1/16W J
R560	NRS463J-104X	MG R	100Ω 1/16W J
R561	QRE121J-100Y	C R	10Ω 1/2W J
R571	NRS463J-101X	MG R	100Ω 1/16W J
R572	NRS463J-223X	MG R	22KΩ 1/16W J
R573	NRS463J-821X	MG R	820Ω 1/16W J
R574	NRS463J-333X	MG R	33KΩ 1/16W J
R625	NRS463J-682X	MG R	6.8KΩ 1/16W J
R626	NRS463J-104X	MG R	100Ω 1/16W J
R629	NRS463J-682X	MG R	6.8KΩ 1/16W J
R630	NRS463J-104X	MG R	100Ω 1/16W J
R631	NRS463J-103X	MG R	10KΩ 1/16W J
R633	NRS463J-103X	MG R	10KΩ 1/16W J
R637	NRS463J-104X	MG R	100Ω 1/16W J
R641	NRS463J-103X	MG R	10KΩ 1/16W J
R642	NRS463J-473X	MG R	47KΩ 1/16W J
R643	NRS463J-822X	MG R	8.2KΩ 1/16W J
R644	NRS463J-153X	MG R	15KΩ 1/16W J
R645	NRS463J-222X	MG R	2.2KΩ 1/16W J
R646	NRS463J-273X	MG R	27KΩ 1/16W J
R647	NRS463J-473X	MG R	47KΩ 1/16W J
R649	NRS463J-101X	MG R	100Ω 1/16W J
R650	NRS463J-101X	MG R	100Ω 1/16W J
R651	NRS463J-123X	MG R	12KΩ 1/16W J
R671	NRS463J-104X	MG R	100Ω 1/16W J
R672	NRS463J-681X	MG R	680Ω 1/16W J
R673	NRS463J-681X	MG R	680Ω 1/16W J
R674	NRS463J-103X	MG R	10KΩ 1/16W J
R675	NRS463J-103X	MG R	10KΩ 1/16W J
R702	NRS463J-472X	MG R	4.7KΩ 1/16W J
R704	NRS463J-472X	MG R	4.7KΩ 1/16W J
R705	NRS463J-103X	MG R	10KΩ 1/16W J
R707	NRS463J-103X	MG R	10KΩ 1/16W J
R708	NRS463J-103X	MG R	10KΩ 1/16W J
R709	NRS463J-103X	MG R	10KΩ 1/16W J
R710	NRS463J-103X	MG R	10KΩ 1/16W J
R712	NRS463J-103X	MG R	10KΩ 1/16W J
R713	NRS463J-103X	MG R	10KΩ 1/16W J
R714	NRS463J-101X	MG R	100Ω 1/16W J
R715	NRS463J-101X	MG R	100Ω 1/16W J
R716	NRS463J-101X	MG R	100Ω 1/16W J
R717	NRS463J-101X	MG R	100Ω 1/16W J
R718	NRS463J-472X	MG R	4.7KΩ 1/16W J
R719	NRS463J-472X	MG R	4.7KΩ 1/16W J
R720	NRS463J-472X	MG R	4.7KΩ 1/16W J
R721	NRS463J-221X	MG R	220Ω 1/16W J
R722	NRS463J-221X	MG R	220Ω 1/16W J
R723	NRS463J-221X	MG R	220Ω 1/16W J
R724	NRS463J-221X	MG R	220Ω 1/16W J
R725	NRS463J-221X	MG R	220Ω 1/16W J
R726	NRS463J-683X	MG R	68KΩ 1/16W J
R728	NRS463J-101X	MG R	100Ω 1/16W J
R729	NRS463J-101X	MG R	100Ω 1/16W J
R730	NRS463J-183X	MG R	18KΩ 1/16W J
R731	NRS463J-183X	MG R	18KΩ 1/16W J
R732	NRS463J-472X	MG R	4.7KΩ 1/16W J
R733	NRS463J-472X	MG R	4.7KΩ 1/16W J
R734	NRS463J-472X	MG R	4.7KΩ 1/16W J
R735	NRS463J-223X	MG R	22KΩ 1/16W J
R736	NRS463J-223X	MG R	22KΩ 1/16W J
R737	NRS463J-103X	MG R	10KΩ 1/16W J
R738	NRS463J-103X	MG R	10KΩ 1/16W J
R739	NRS463J-473X	MG R	47KΩ 1/16W J

Symbol No.	Part No.	Part Name	Description
RESISTOR			
R740	NRS63J-332X	MG R	3.3kΩ 1/16W J
R741	NRS63J-101X	MG R	100Ω 1/16W J
R742	NRS63J-223X	MG R	22kΩ 1/16W J
R743	NRS63J-391X	MG R	390Ω 1/16W J
R744	NRS63J-471X	MG R	470Ω 1/16W J
R745	NRS63J-182X	MG R	1.8kΩ 1/16W J
R746	NRS63J-473X	MG R	47kΩ 1/16W J
R747	NRS63J-682X	MG R	6.8kΩ 1/16W J
R748	NRS63J-153X	MG R	15kΩ 1/16W J
R749	NRS63J-223X	MG R	22kΩ 1/16W J
R750	NRS63J-473X	MG R	47kΩ 1/16W J
R751	NRS63J-562X	MG R	5.6kΩ 1/16W J
R752	NRS63J-103X	MG R	10kΩ 1/16W J
R753	NRS63J-223X	MG R	22kΩ 1/16W J
R757	NRS63J-102X	MG R	1kΩ 1/16W J
R758	NRS63J-080X	MG R	0.0Ω 1/16W J
R759	NRS63J-080X	MG R	0.0Ω 1/16W J
R760	NRS63J-080X	MG R	0.0Ω 1/16W J
R763	NRS63J-823X	MG R	82kΩ 1/16W J
R764	NRS63J-104X	MG R	100kΩ 1/16W J
R765	NRS63J-103X	MG R	10kΩ 1/16W J
R766	NRS63J-222X	MG R	2.2kΩ 1/16W J
R767	NRS63J-103X	MG R	10kΩ 1/16W J
R768	NRS63J-103X	MG R	10kΩ 1/16W J
R769	NRS63J-183X	MG R	18kΩ 1/16W J
R770	NRS63J-183X	MG R	18kΩ 1/16W J
R771	NRS63J-102X	MG R	1kΩ 1/16W J
R772	NRS63J-104X	MG R	100kΩ 1/16W J
R773	NRS63J-221X	MG R	220Ω 1/16W J
R774	NRS63J-473X	MG R	47kΩ 1/16W J
R775	NRS63J-102X	MG R	1kΩ 1/16W J
R776	NRS63J-473X	MG R	47kΩ 1/16W J
R777	NRS63J-102X	MG R	1kΩ 1/16W J
R778	NRS63J-152X	MG R	1.5kΩ 1/16W J
R779	NRS63J-273X	MG R	27kΩ 1/16W J
R780	NRS63J-103X	MG R	10kΩ 1/16W J
R781	NRS63J-103X	MG R	10kΩ 1/16W J
R782	NRS63J-103X	MG R	10kΩ 1/16W J
R783	NRS63J-103X	MG R	10kΩ 1/16W J
R784	NRS63J-333X	MG R	33kΩ 1/16W J
R785	NRS63J-184X	MG R	180kΩ 1/16W J
R787	NRS63J-333X	MG R	33kΩ 1/16W J
R788	NRS63J-332X	MG R	3.3kΩ 1/16W J
R789	NRS63J-103X	MG R	10kΩ 1/16W J
R790	NRS63J-102X	MG R	1kΩ 1/16W J
R791	NRS63J-152X	MG R	1.5kΩ 1/16W J
R792	NRS63J-103X	MG R	10kΩ 1/16W J
R793	NRS63J-102X	MG R	1kΩ 1/16W J

Symbol No.	Part No.	Part Name	Description
CAPACITOR			
C314	NCB31HK-103X	C CAP.	0.01μF 50V K
C315	QETNLMH-106Z	E CAP.	10μF 50V M
C319	QETNLMC-107Z	E CAP.	100μF 16V M
C320	NCB31HK-103X	C CAP.	0.01μF 50V K
C321	NCB31CK-104X	C CAP.	0.1μF 16V K
C322	NCB31CK-104X	C CAP.	0.1μF 16V K
C323	NCB31CK-104X	C CAP.	0.1μF 16V K
C324	QETNLMH-105Z	E CAP.	1.0μF 50V M
C325	QETNLMH-105Z	E CAP.	1.0μF 50V M
C326	QETNLMH-105Z	E CAP.	1.0μF 50V M
C327	QETNLMH-475Z	E CAP.	4.7μF 50V M
C328	QETNLEM-476Z	E CAP.	47μF 25V M
C329	NDC31HJ-390X	C CAP.	39pF 50V J
C330	NDC31HJ-390X	C CAP.	39pF 50V J
C331	QETNLMH-105Z	E CAP.	1.0μF 50V M
C332	NCB31HK-103X	C CAP.	0.01μF 50V K
C333	NCB31EK-104X	C CAP.	0.1μF 25V K
C334	QETNLMH-106Z	E CAP.	10μF 50V M
C401	QETNLMH-105Z	E CAP.	1.0μF 50V M
C403	NCB31HK-103X	C CAP.	0.01μF 50V K
C404	NCB31HK-103X	C CAP.	0.01μF 50V K
C405	NCB31HK-103X	C CAP.	0.01μF 50V K
C406	QVFV1HJ-184Z	MF CAP.	0.18μF 50V J
C407	QVFV1HJ-824Z	MF CAP.	0.82μF 50V J
C408	NCB31HK-153X	C CAP.	0.015μF 50V K
C501	QETNLMC-107Z	E CAP.	100μF 16V M
C502	NCB31HK-103X	C CAP.	0.01μF 50V K
C503	NCB31HK-103X	C CAP.	0.01μF 50V K
C504	NCB31HK-103X	C CAP.	0.01μF 50V K
C505	NCB31HK-332X	C CAP.	3300pF 50V K
C506	QETNLMH-335Z	E CAP.	3.3μF 50V M
C507	NCB31HK-103X	C CAP.	0.01μF 50V K
C508	QETNLMC-108Z	E CAP.	1000μF 16V M
C509	QFLCIHJ-823Z	M CAP.	0.082μF 50V J
C510	NCB31HK-103X	C CAP.	0.01μF 50V K
C511	NCB31HK-103X	C CAP.	0.01μF 50V K
C512	QTM1MH-105Z	E CAP.	1.0μF 50V M
C513	QETNLMC-228Z	E CAP.	2200μF 16V M
C514	NCB31HK-103X	C CAP.	0.01μF 50V K
C515	QVFV1HJ-394Z	MF CAP.	0.39μF 50V J
C516	NCB31HK-103X	C CAP.	0.01μF 50V K
C551	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C552	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C553	QETNLEM-476Z	E CAP.	47μF 25V M
C554	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C555	NCF31CZ-224X	C CAP.	0.22μF 16V Z
C571	NCB31HK-103X	C CAP.	0.01μF 50V K
C617	QETNLMH-106Z	E CAP.	10μF 50V M
C619	QETNLMH-106Z	E CAP.	10μF 50V M
C620	QETNLMH-107Z	E CAP.	100μF 50V M
C621	QETMLVM-228	E CAP.	2200μF 35V M
C628	QETNLEM-108Z	E CAP.	1000μF 25V M
C630	QETNLEM-108Z	E CAP.	1000μF 25V M
C632	QETNLMH-106Z	E CAP.	10μF 50V M
C633	QETNLMH-106Z	E CAP.	10μF 50V M
C634	QETNLMC-227Z	E CAP.	220μF 16V M
C637	QETNLMC-227Z	E CAP.	220μF 16V M
C638	QETNLMH-106Z	E CAP.	10μF 50V M
C639	QETNLMH-106Z	E CAP.	10μF 50V M
C640	QETNLMH-106Z	E CAP.	10μF 50V M
C641	QETNLMH-106Z	E CAP.	10μF 50V M
C642	QETNLMH-106Z	E CAP.	10μF 50V M
C643	QETNLMH-106Z	E CAP.	10μF 50V M
C644	QETNLMC-107Z	E CAP.	100μF 16V M
C645	QETNLMH-105Z	E CAP.	1.0μF 50V M
C646	QETNLMH-106Z	E CAP.	10μF 50V M
C647	NCB31HK-272X	C CAP.	2700pF 50V K
C648	NCB31HK-472X	C CAP.	4700pF 50V K
C671	QETNLMH-106Z	E CAP.	10μF 50V M
C672	QETNLMH-106Z	E CAP.	10μF 50V M
C673	NCB31HK-222X	C CAP.	2200pF 50V K
C674	NCB31HK-222X	C CAP.	2200pF 50V K
C675	QETNLMC-107Z	E CAP.	100μF 16V M
C676	NCB31CK-104X	C CAP.	0.1μF 16V K
C677	NCB31CK-104X	C CAP.	0.1μF 16V K
C702	NCB31HK-103X	C CAP.	0.01μF 50V K

Symbol No.	Part No.	Part Name	Description	Symbol No.	Part No.	Part Name	Description
CAPACITOR							
C703	QETN1VM-477Z	E CAP.	470 pF 35V M	Q001	2SC2412K/QR/-X	TRANSISTOR	
C704	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q002	2SC2412K/QR/-X	TRANSISTOR	
C705	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q301	2SA1037AK/QR/-X	TRANSISTOR	
C706	QETN1AM-227Z	E CAP.	220 pF 10V M	Q302	2SA1037AK/QR/-X	TRANSISTOR	
C707	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q308	DTC124EKA-X	DIGI TRANSISTOR	
C708	QETN1AM-107Z	E CAP.	100 pF 10V M	Q309	2SC2412K/QR/-X	TRANSISTOR	
C709	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q311	DTC124EKA-X	DIGI TRANSISTOR	
C710	QETN1AM-107Z	E CAP.	100 pF 10V M	Q312	2SA1037AK/QR/-X	TRANSISTOR	
C711	QETN1AM-227Z	E CAP.	220 pF 10V M	Q401	DTC124EKA-X	DIGI TRANSISTOR	
C712	QETN1AM-227Z	E CAP.	220 pF 10V M	Q402	2SC2412K/QR/-X	TRANSISTOR	
C713	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q611	2SA1037AK/QR/-X	TRANSISTOR	
C714	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q612	DTC124EKA-X	DIGI TRANSISTOR	
C715	NDC31HJ-561X	C CAP.	560 pF 50V J	Q614	DTC124EKA-X	DIGI TRANSISTOR	
C716	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q617	DTC144EKA-X	DIGI TRANSISTOR	
C717	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q618	2SC2412K/QR/-X	TRANSISTOR	
C718	QENCLEM-106Z	BP E CAP.	10 pF 25V M	Q619	DTC144EKA-X	DIGI TRANSISTOR	
C721	QETN1HM-105Z	E CAP.	1.0 μF 50V M	Q620	2SA1037AK/QR/-X	TRANSISTOR	
C722	QETN1HM-106Z	E CAP.	10 pF 50V M	Q671	2SA1037AK/QR/-X	TRANSISTOR	
C723	QETN1HM-106Z	E CAP.	10 pF 50V M	Q672	DTC323TK-X	DIGI TRANSISTOR	
C724	QETN1HM-106Z	E CAP.	10 pF 50V M	Q673	DTC323TK-X	DIGI TRANSISTOR	
C725	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q701	DTC124EKA-X	DIGI TRANSISTOR	
C726	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q702	2SC2412K/QR/-X	TRANSISTOR	
C727	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q703	2SC2412K/QR/-X	TRANSISTOR	
C728	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q704	2SC2412K/QR/-X	TRANSISTOR	
C729	NCB31EK-333X	C CAP.	0.033 μF 25V K	Q705	2SA1037AK/QR/-X	TRANSISTOR	
C730	NDC31HJ-151X	C CAP.	150 pF 50V J	Q706	2SC2412K/QR/-X	TRANSISTOR	
C732	NDC31HJ-330X	C CAP.	33 pF 50V J	Q707	2SA1037AK/QR/-X	TRANSISTOR	
C733	NDC31HJ-390X	C CAP.	39 pF 50V J	Q708	2SC2412K/QR/-X	TRANSISTOR	
C734	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q709	2SC2412K/QR/-X	TRANSISTOR	
C735	NCB31EK-333X	C CAP.	0.033 μF 25V K	Q710	2SC2412K/QR/-X	TRANSISTOR	
C736	NCB31HK-102X	C CAP.	1000 pF 50V K	Q711	2SC2412K/QR/-X	TRANSISTOR	
C737	NCB31CK-104X	C CAP.	0.1 μF 16V K	Q712	2SC2412K/QR/-X	TRANSISTOR	
C738	NDC31HJ-151X	C CAP.	150 pF 50V J	Q713	2SA1037AK/QR/-X	TRANSISTOR	
C739	NCF31AZ-105X	C CAP.	1 nF 10V Z				
C740	NDC31HJ-561X	C CAP.	560 pF 50V J				
C741	QETN1HM-105Z	E CAP.	1.0 μF 50V M				
C742	QETN1HM-105Z	E CAP.	1.0 μF 50V M				
COIL							
L001	QQL244K-270Z	INDUCTOR		IC301	TB1227CN	IC	
L002	QQL244K-100Z	COIL	10 mH K	IC302	AN5860	IC	
L003	QQL244K-100Z	COIL	10 mH K	IC501	AN54415A-W	IC	
L301	QQL244K-4R7Z	COIL	4.7 mH K	IC551	LA6515	IC	
L302	QQL244K-4R7Z	COIL	4.7 mH K	IC602	AN5277	IC	
L305	QQL244K-4R7Z	COIL	4.7 mH K	IC608	NJM7701-X	IC	
L306	QQL244K-330Z	COIL	33 pH K	IC671	BA05T	IC	
L501	QQL244J-151Z	INDUCTOR		IC702	SDA555XFL	IC(MICRO C ROM)	(SERVICE)
L671	NQL085J-100X	INDUCTOR		IC703	AT24C16-28T2 \times K	IC	
L672	NQL085J-100X	INDUCTOR		IC708	JLC1562BF-X	IC	
L701	QQL244K-4R7Z	COIL	4.7 mH K	IC704	BA1780ST	IC	
L702	QQL244K-4R7Z	COIL	4.7 mH K	IC705	MM1478DF-X	IC	
L703	QQL244K-4R7Z	COIL	4.7 mH K	IC706	R1170H251B-X	IC	
L704	QQL244K-4R7Z	COIL	4.7 mH K				
L705	QQL244K-4R7Z	COIL	4.7 mH K				
L706	QQL244K-4R7Z	COIL	4.7 mH K				
L707	QQL244K-8R2Z	COIL	8.2 mH K				
L708	QQL244K-4R7Z	COIL	4.7 mH K				
DIODE							
D301	MA3051/M/-X	Z DIODE		CN001	QGF1220C2-19	FFC/FPC CONNE	
D302	MA111-X	SI DIODE		CN008 -5	QGB1506L1-16	B TO B CONNE	
D303	MA111-X	SI DIODE		CN006	QGB1505J1-50	B TO B CONNE	
D304	MA111-X	SI DIODE		CN008	QGA2501C5-08Z	W TO B CONNE	
D503	AK04-T2	SR DIODE		CN016	QGA2501C5-05Z	W TO B CONNE	
D611	MA330/L/-X	Z DIODE		K307	QOR0621-002Z	FERRITE BEADS	
D613	MA330/L/-X	Z DIODE		LC301	CE42142-222Z	EMI FILTER	
D616	MA111-X	SI DIODE		TU001	QAU0276-001	TUNER	
D617	MA111-X	SI DIODE		X301	QAXCB05-001Z	CRYSTAL	
D618	MA111-X	SI DIODE		X701	QAXC069-001Z	CRYSTAL	
D619	MA111-X	SI DIODE		CEN5909-05Z	IC SOCKET		
D620	MA111-X	SI DIODE		CEN5907-008	IC SOCKET		
D621	MA111-X	SI DIODE					
D702	MA111-X	SI DIODE					
D703	MA111-X	SI DIODE					
D704	MA3058/M/-X	Z DIODE					
D705	MA111-X	SI DIODE					
TRANSISTOR							
IC							
IC301	TB1227CN	IC					
IC302	AN5860	IC					
IC501	AN54415A-W	IC					
IC551	LA6515	IC					
IC602	AN5277	IC					
IC608	NJM7701-X	IC					
IC671	BA05T	IC					
IC702	SDA555XFL	IC(MICRO C ROM)	(SERVICE)				
IC703	AT24C16-28T2 \times K	IC					
IC708	JLC1562BF-X	IC					
IC704	BA1780ST	IC					
IC705	MM1478DF-X	IC					
IC706	R1170H251B-X	IC					
OTHERS							
CN001	QGF1220C2-19	FFC/FPC CONNE					
CN008 -5	QGB1506L1-16	B TO B CONNE					
CN006	QGB1505J1-50	B TO B CONNE					
CN008	QGA2501C5-08Z	W TO B CONNE					
CN016	QGA2501C5-05Z	W TO B CONNE					
K307	QOR0621-002Z	FERRITE BEADS					
LC301	CE42142-222Z	EMI FILTER					
TU001	QAU0276-001	TUNER					
X301	QAXCB05-001Z	CRYSTAL					
X701	QAXC069-001Z	CRYSTAL					
CEN5909-05Z	IC SOCKET						
CEN5907-008	IC SOCKET						

AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

**■POWER & DEF. P.W. BOARD ASS'Y
(SJL-2001A-U2)**

Refer to PARTS LIST in page 37 for this P.W. board.

**■CRT SOCKET P.W. BOARD ASS'Y
(SJL-3001A-U2)**

Refer to PARTS LIST in page 39 for this P.W. board.

**■FRONT CONTROL P.W. BOARD ASS'Y
(SJL-8003A-U2)**

Refer to PARTS LIST in page 40 for this P.W. board.

**■SIDE CONTROL P.W. BOARD ASS'Y
(SJL-8103A-U2)**

Refer to PARTS LIST in page 40 for this P.W. board.

■AV SW P.W. BOARD ASS'Y (SJL0S002A-U2)

Refer to PARTS LIST in page 40 for this P.W. board.

REMOTE CONTROL UNIT PARTS LIST

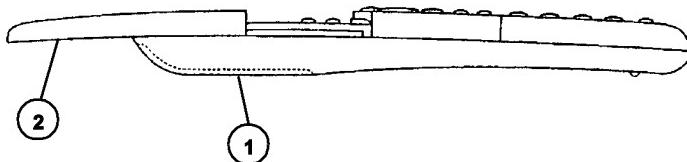
△ Ref.No.	Part No.	Part Name	Description
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AV28T25EKS / AV28T55EKS / AV28T25EIS (RM-C55H-1C)

1	2AA030733	BATTERY COVER
2	2AA030740	SLIDE COVER

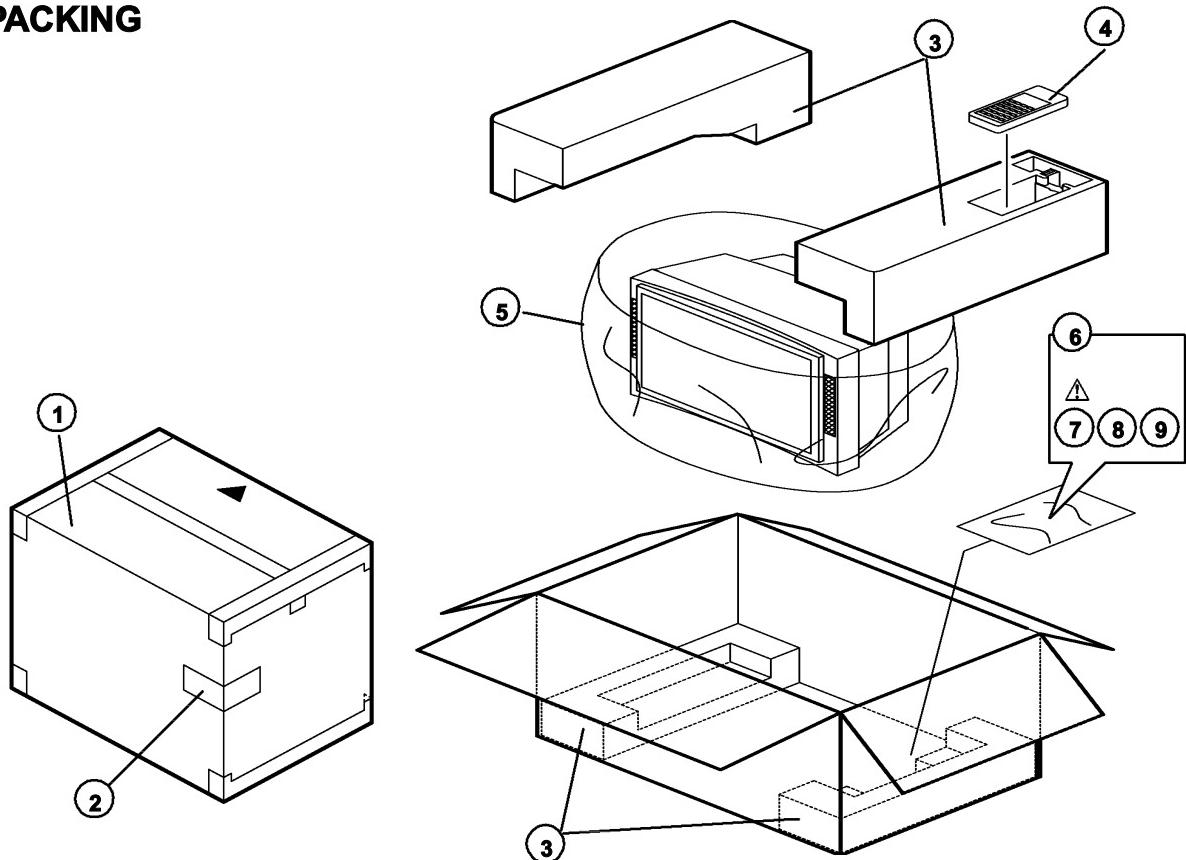
AV28T25EKB (RM-C51-1C)

1	2AA027770	BATTERY COVER
2	2AA027762	SLIDE COVER



AV28T25EKS
AV28T25EKB
AV28T55EKS
AV28T25EIS

PACKING



PACKING PARTS LIST

AV28T25EKS / AV28T25EKB / AV28T55EKS

⚠ Ref. No.	Part No.	Part Name	Description
1	LC10101-016A	PACKING CASE	
2	AEM1064-003-E	EURO LABEL	[AV28T25EKS]
2	AEM1064-025-E	EURO LABEL	[AV28T25EKB]
2	AEM1064-024-E	EURO LABEL	[AV28T55EKS]
3	LC11371-001B	CUSHION ASSY	4pcs in 1set
4	RM-C55H-1C	RC HAND UNIT	[AV28T25EKS] [AV28T55EKS]
4	RM-C51-1C	RC HAND UNIT	[AV28T25EKB]
5	AEM1047-A02-E	FORM BAG	
6	AEM3021-002-E	DOCUMENT BAGS	
7	LCT1153-001A-U	INST BOOK	
8	BT-54013-1E	WARRANTY CARD	
9	AEM3148-001-E	REG CARD	

AV28T25EIS

⚠ Ref. No.	Part No.	Part Name	Description
1	LC10101-016A	PACKING CASE	
2	AEM1064-005-E	EURO LABEL	
3	LC11371-001B	CUSHION ASSY	4pcs in 1set
4	RM-C55H-1C	RC HAND UNIT	
5	AEM1047-A02-E	FORM BAG	
6	AEM3021-002-E	DOCUMENT BAGS	
7	LCT1153-001A-U	INST BOOK	
8	BT-54013-1E	WARRANTY CARD	